

FIG. 1

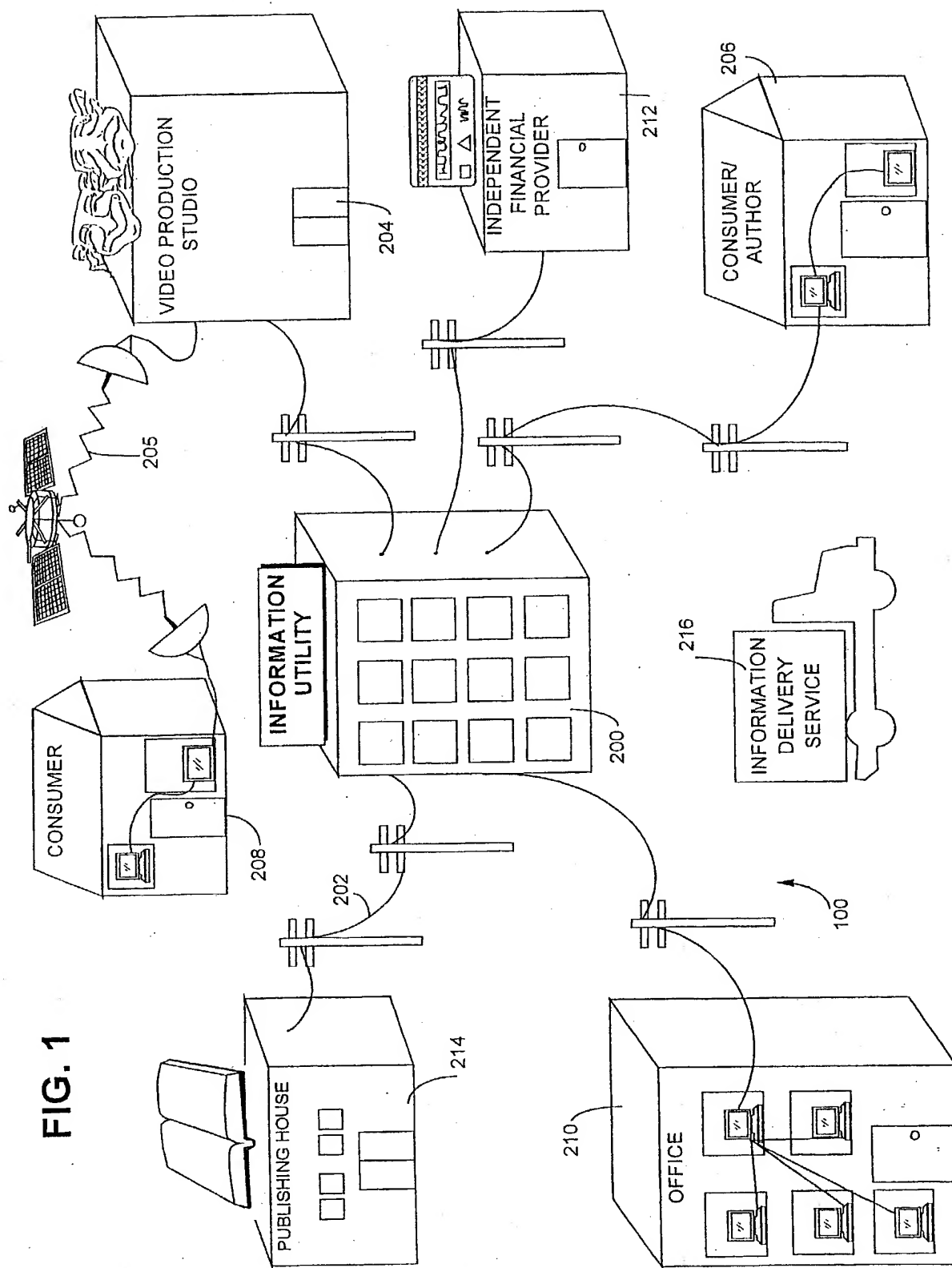


FIG. 1A

TO VDE PARTICIPANT 1      TO VDE PARTICIPANT N

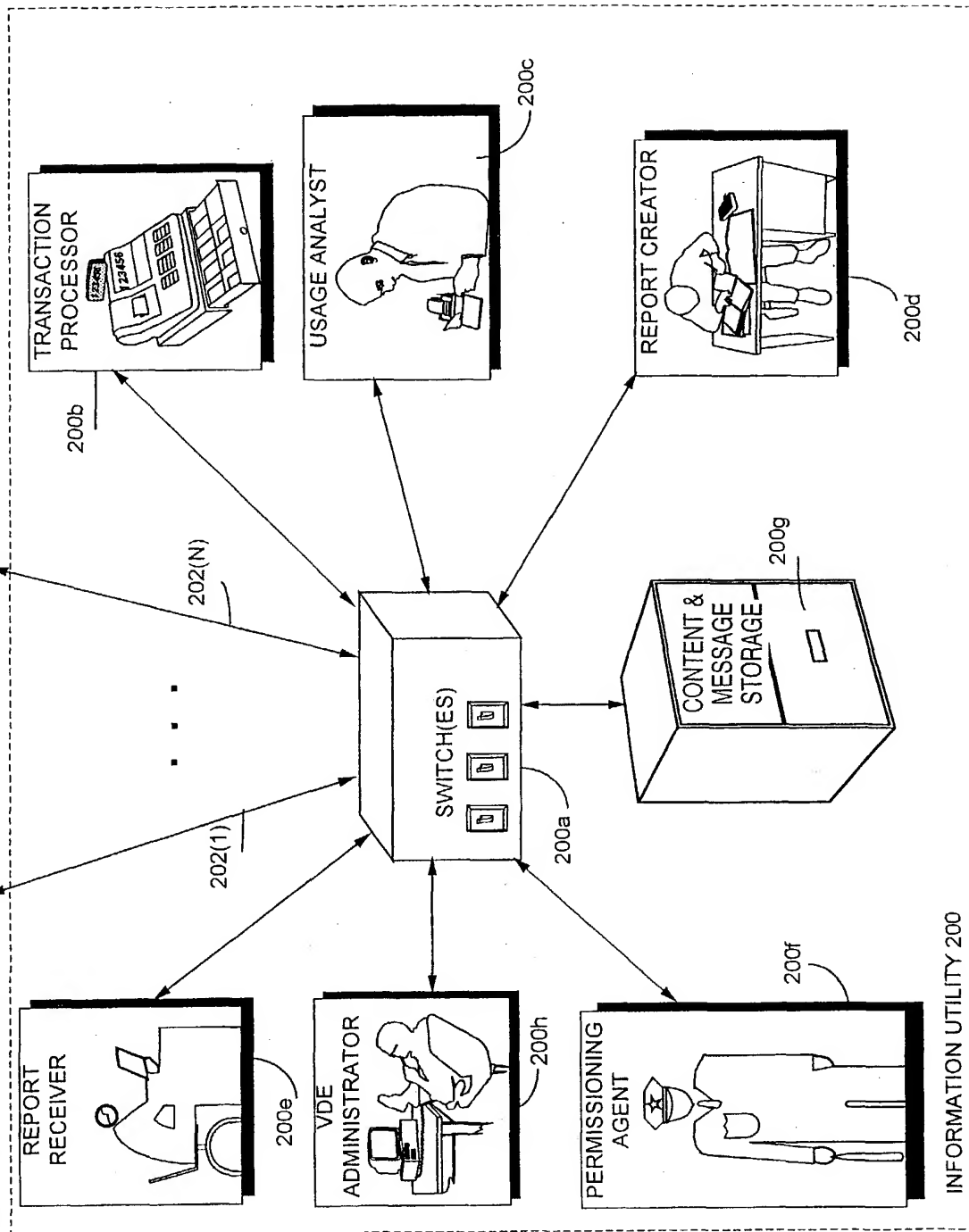


FIG. 2

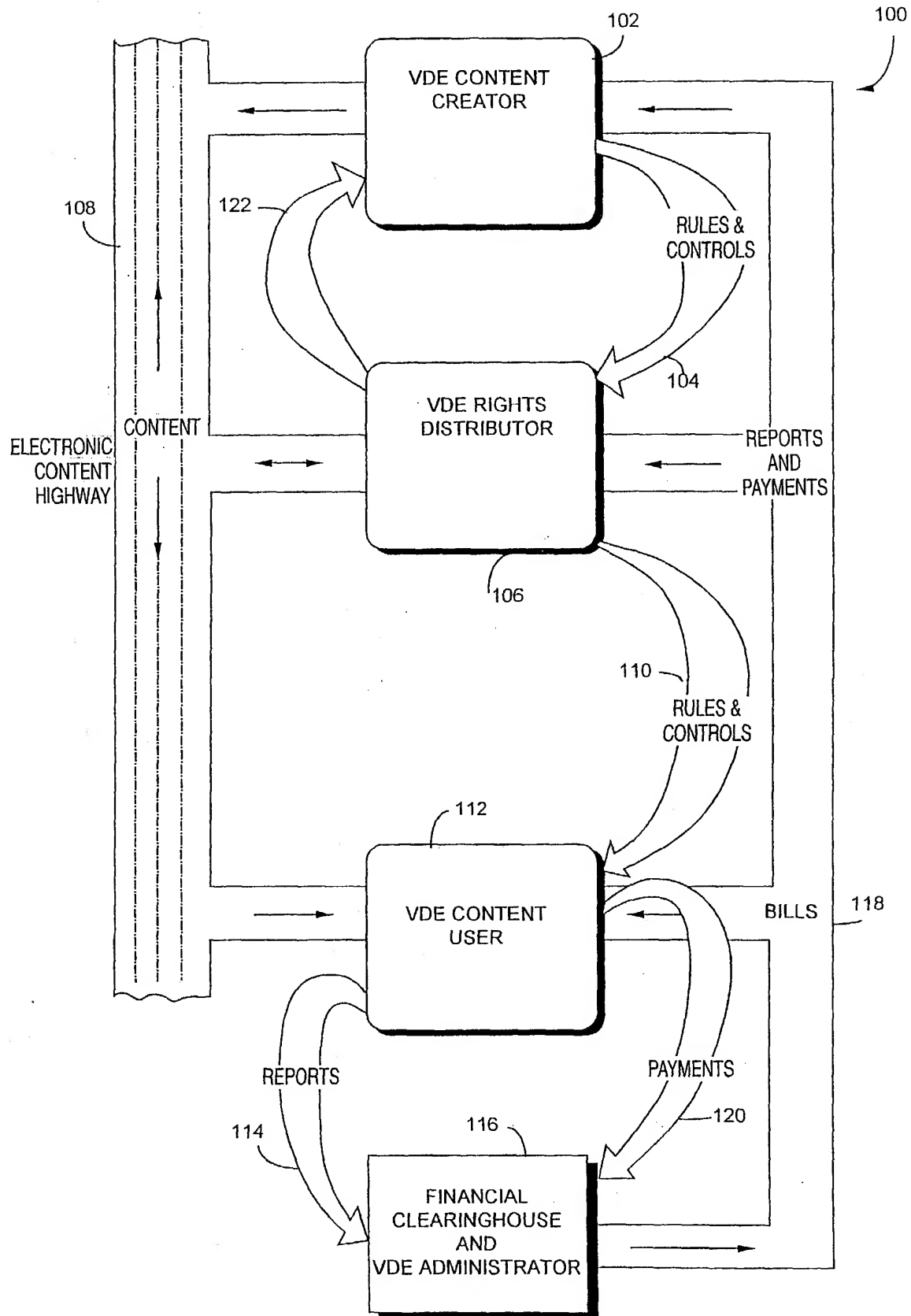
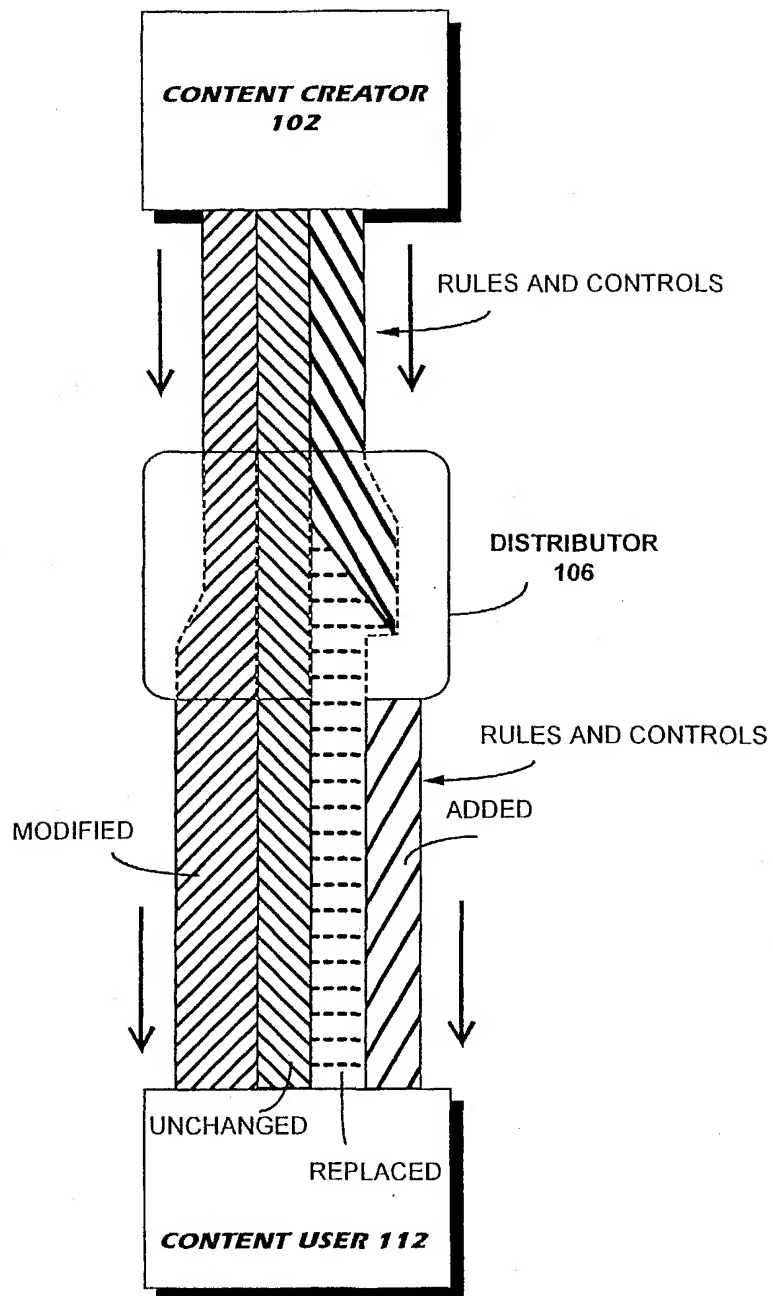
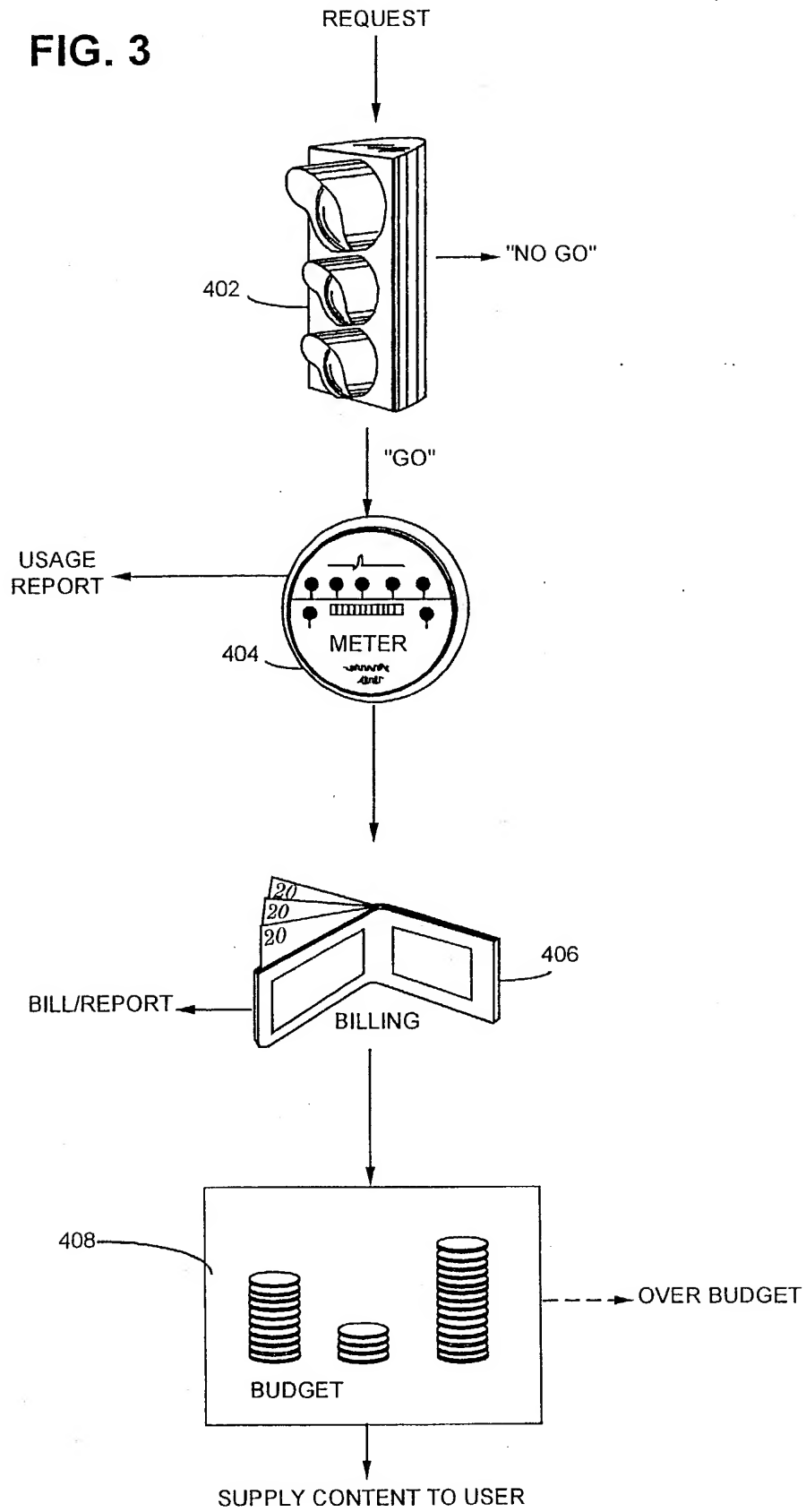


FIG. 2A



**FIG. 3**



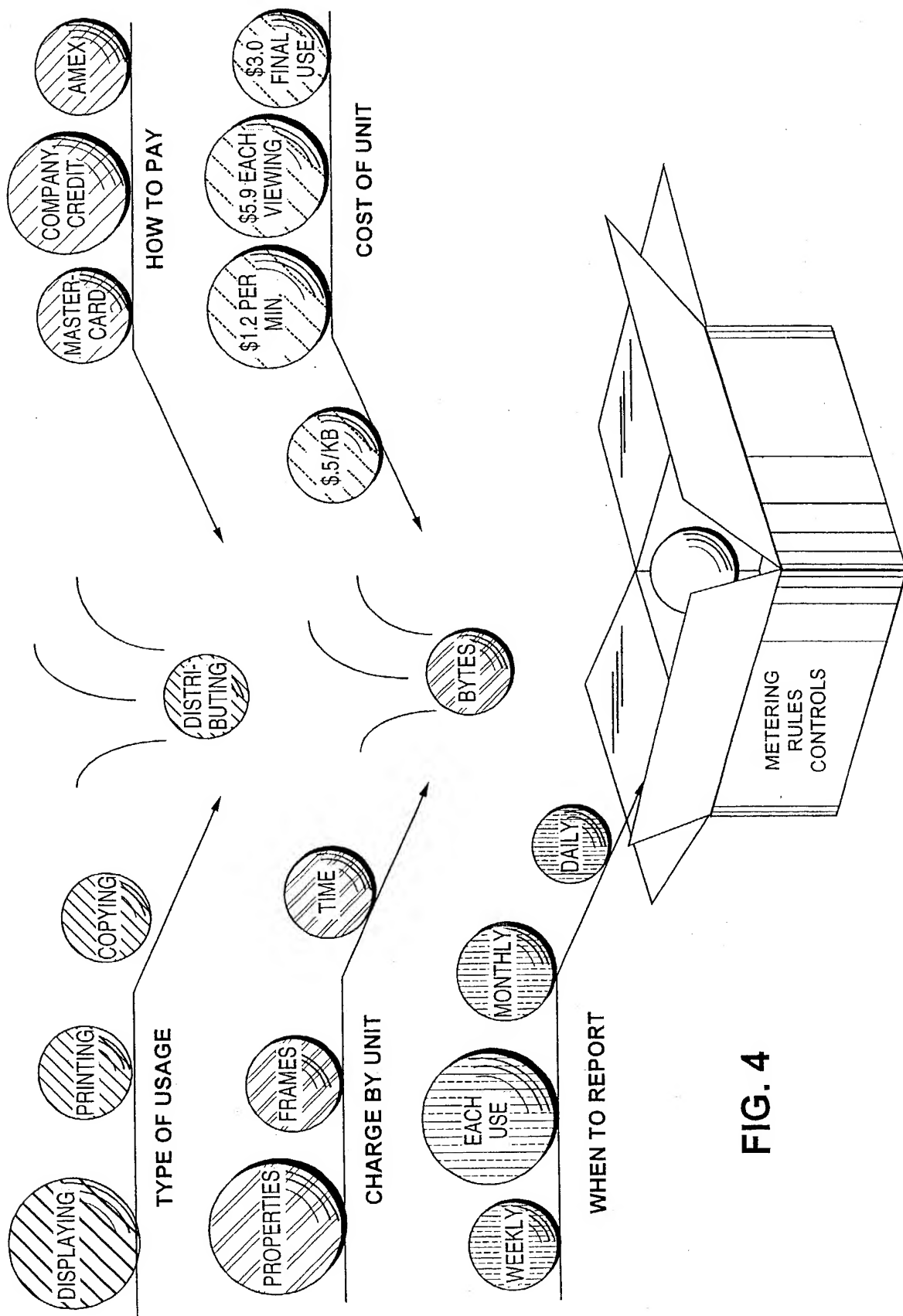
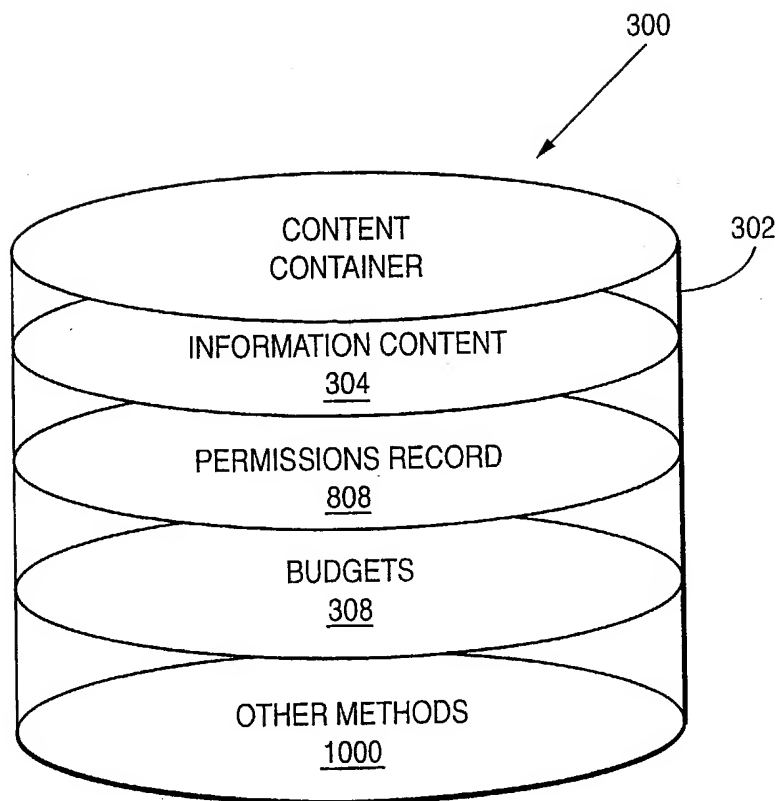
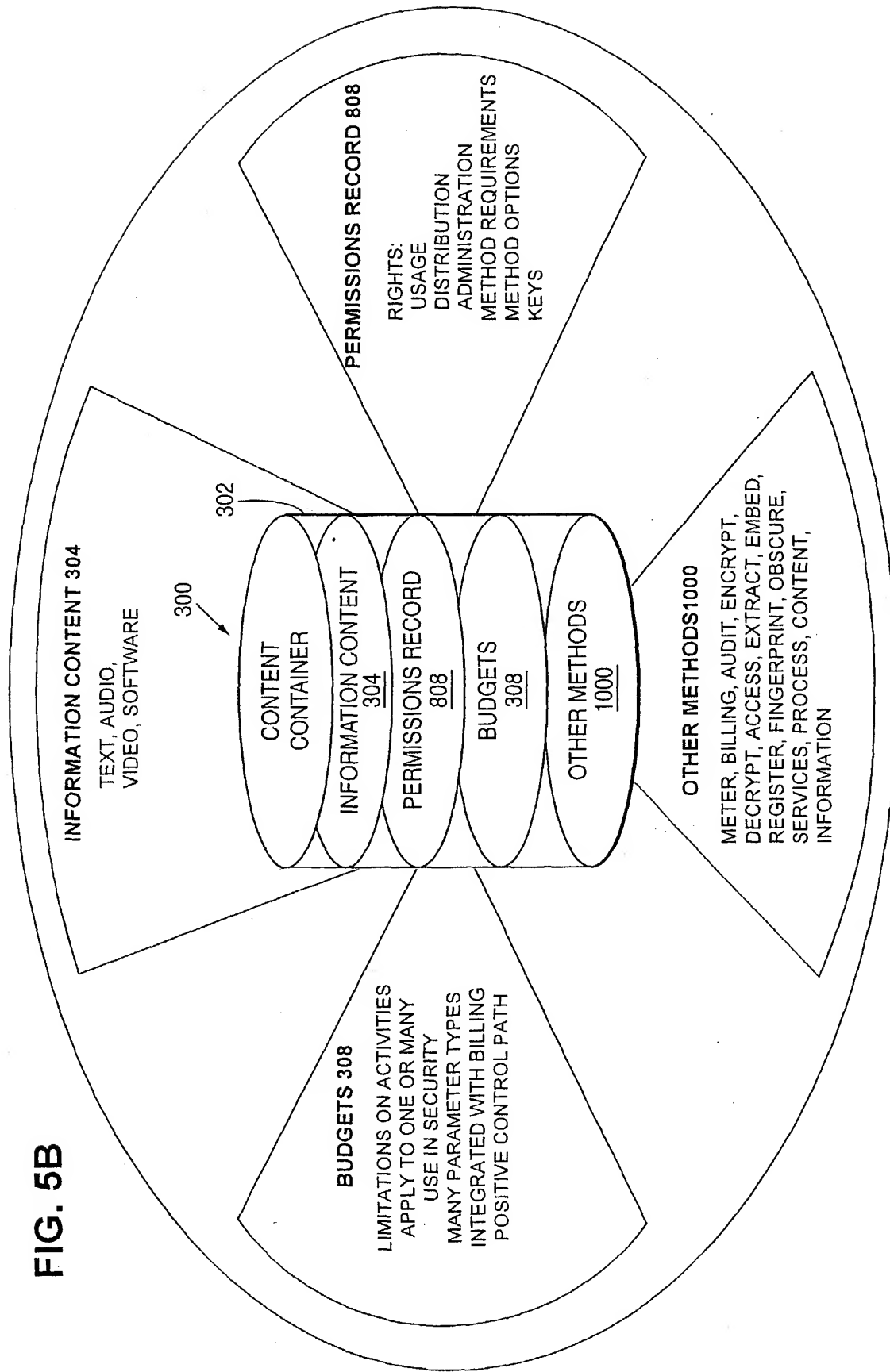


FIG. 4

**FIG. 5A**



**FIG. 5B**



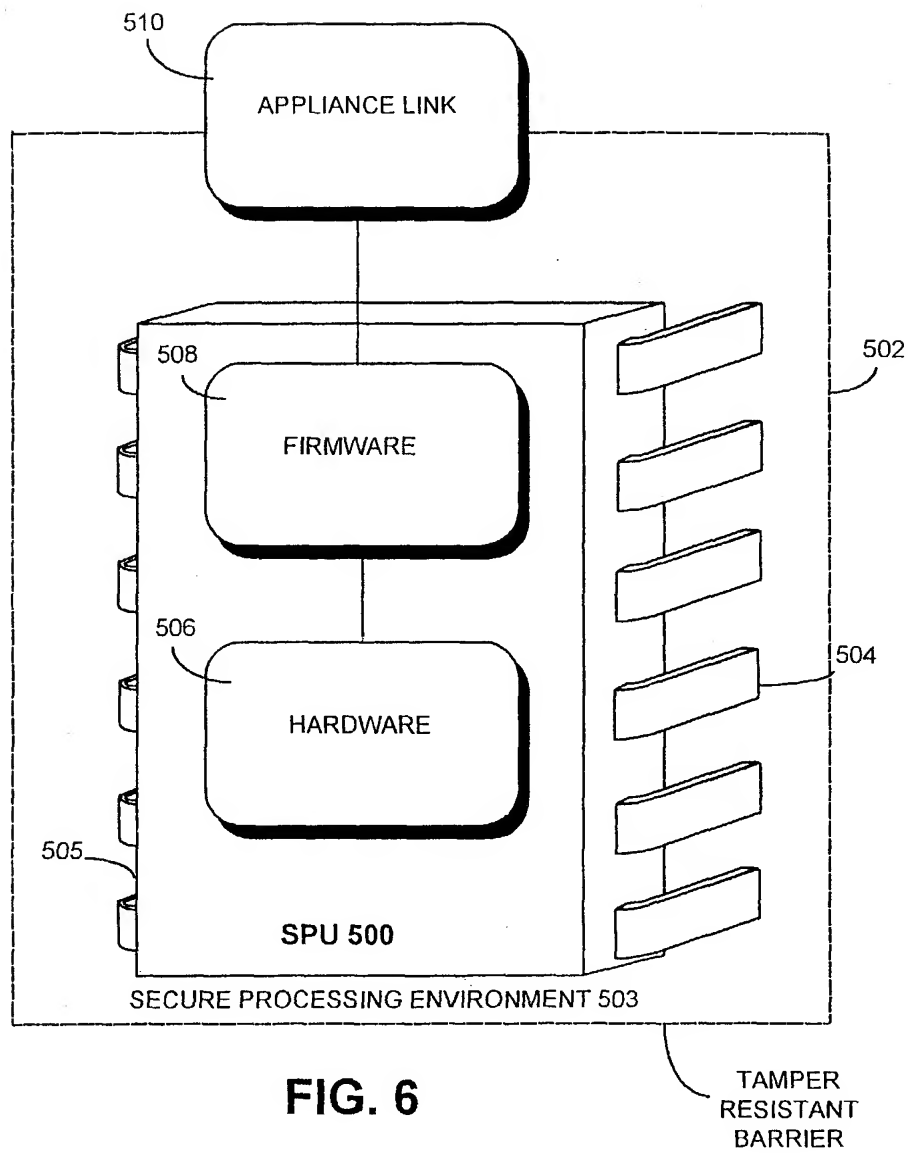
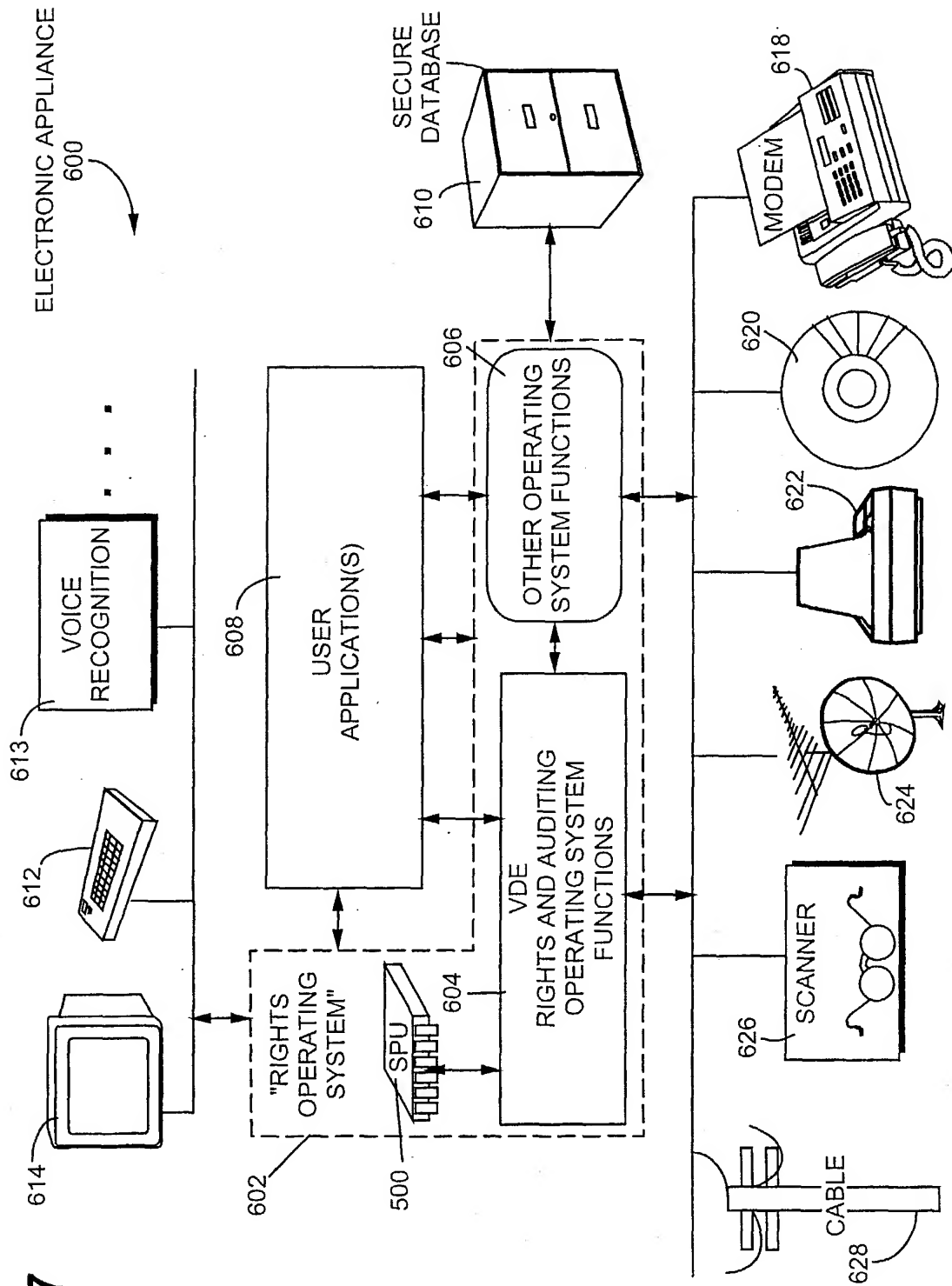
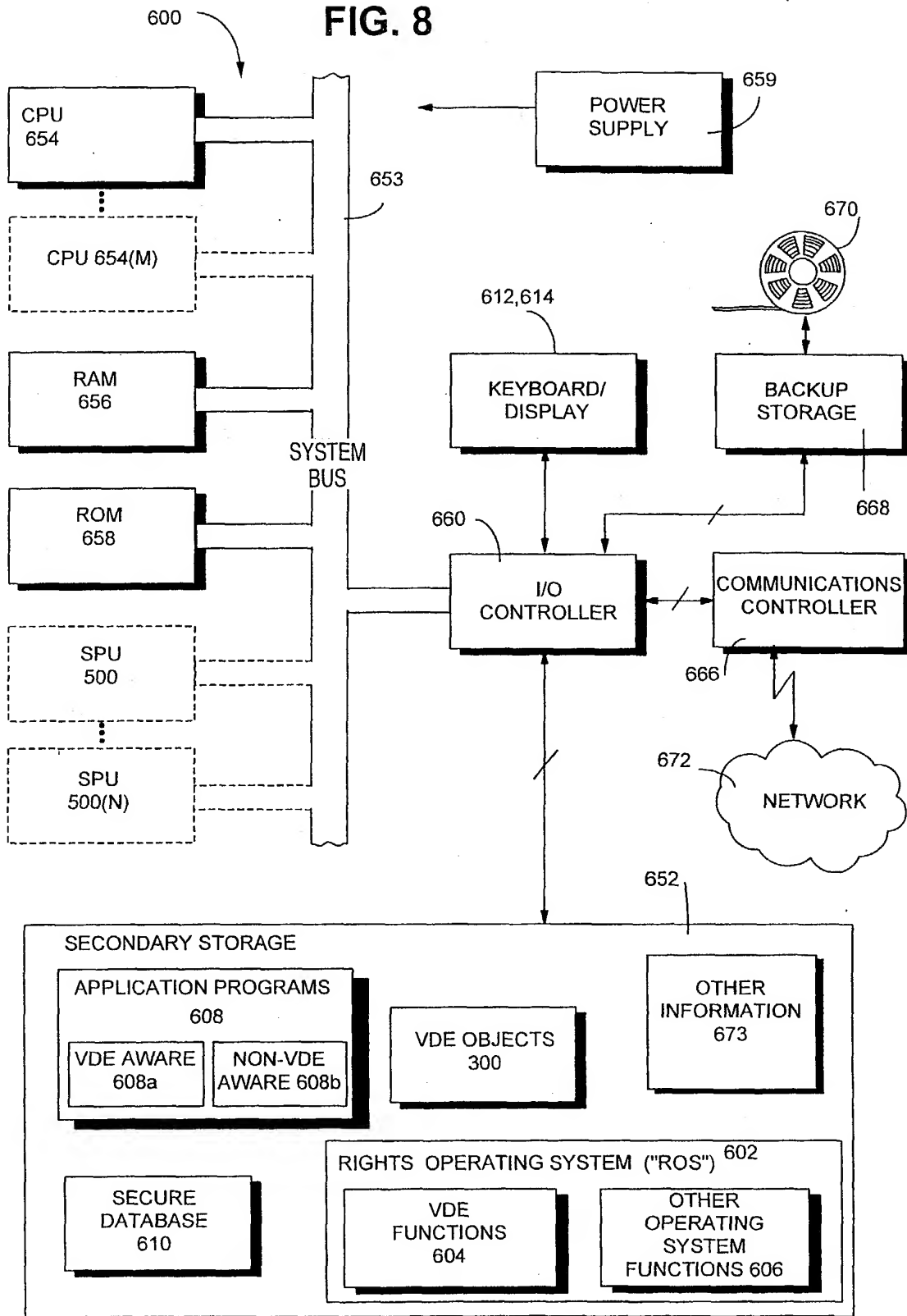


FIG. 7



**FIG. 8**



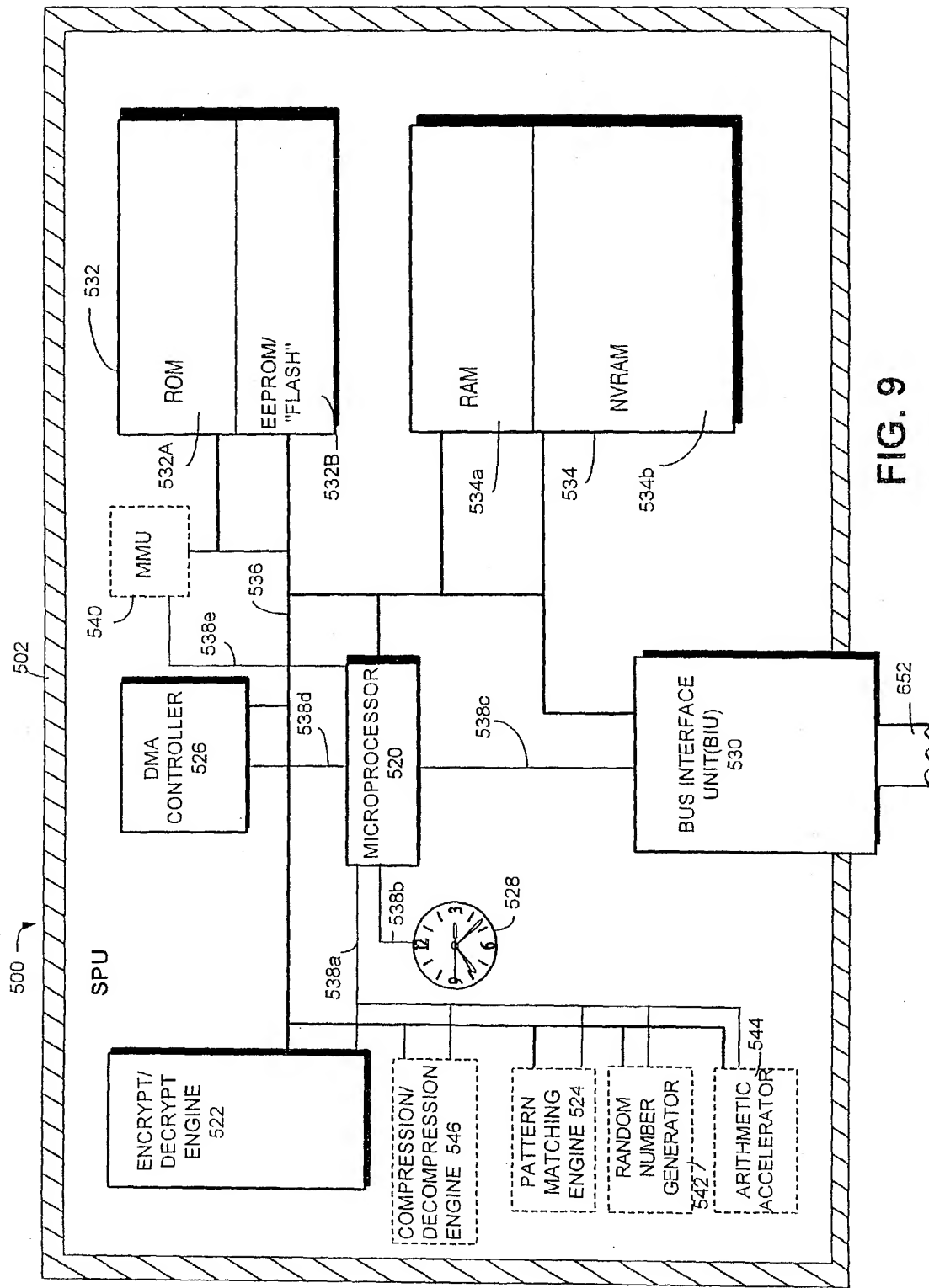
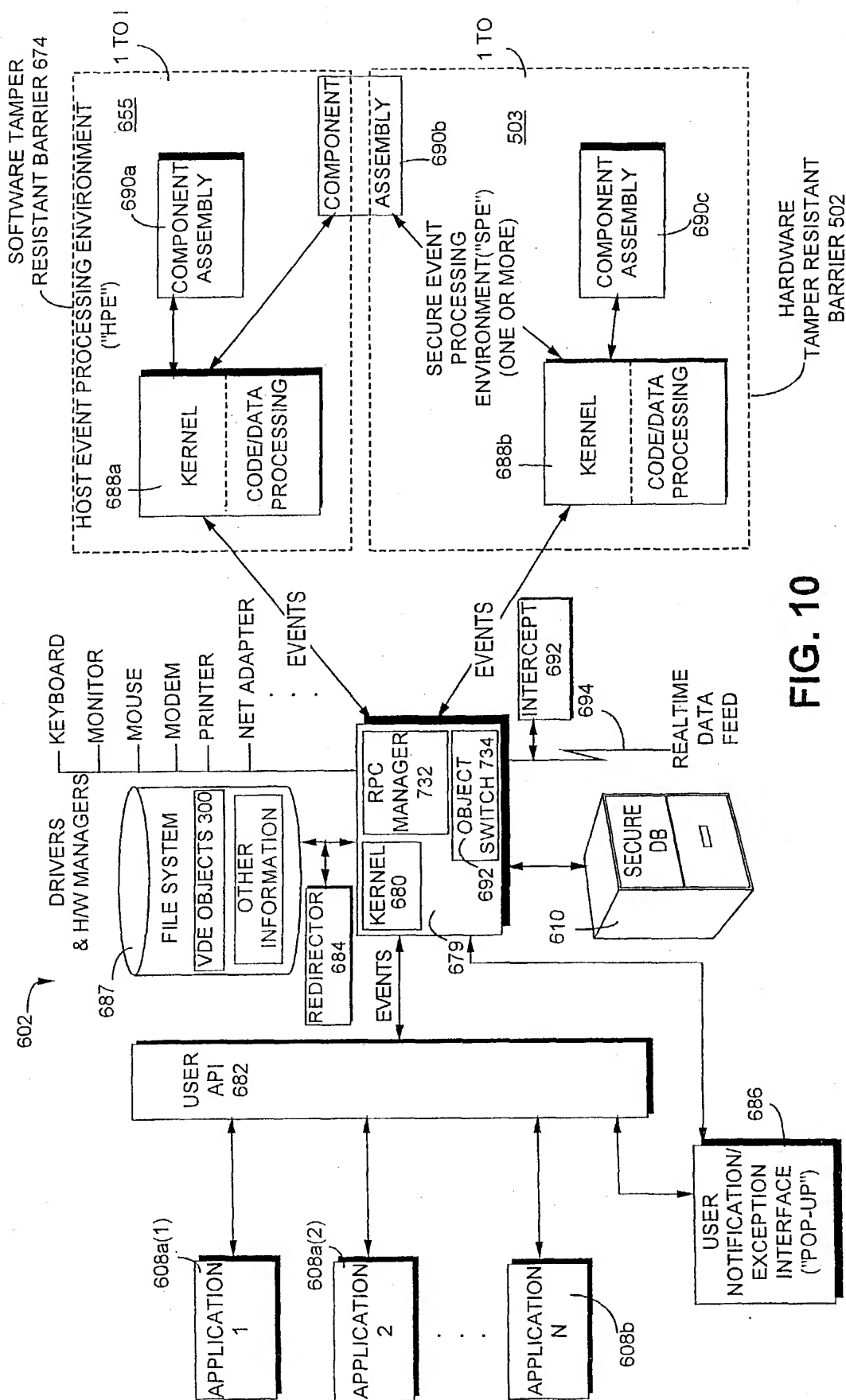
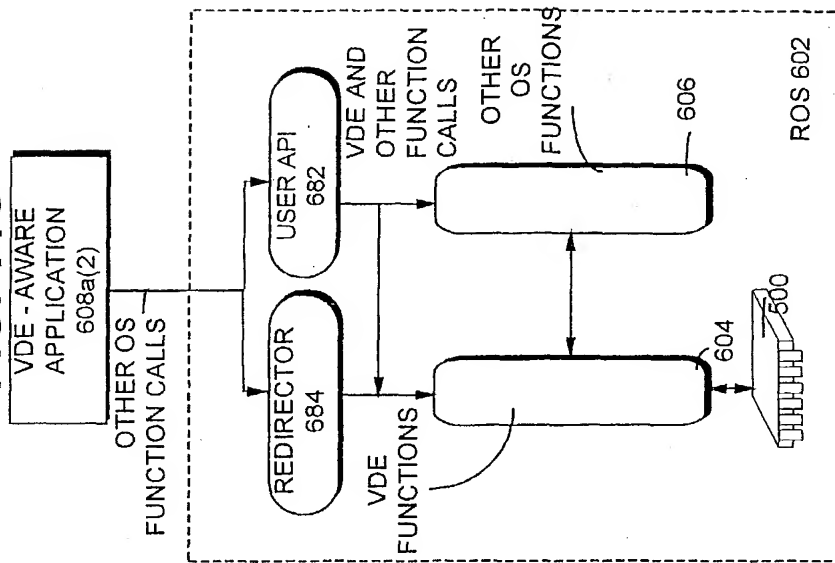


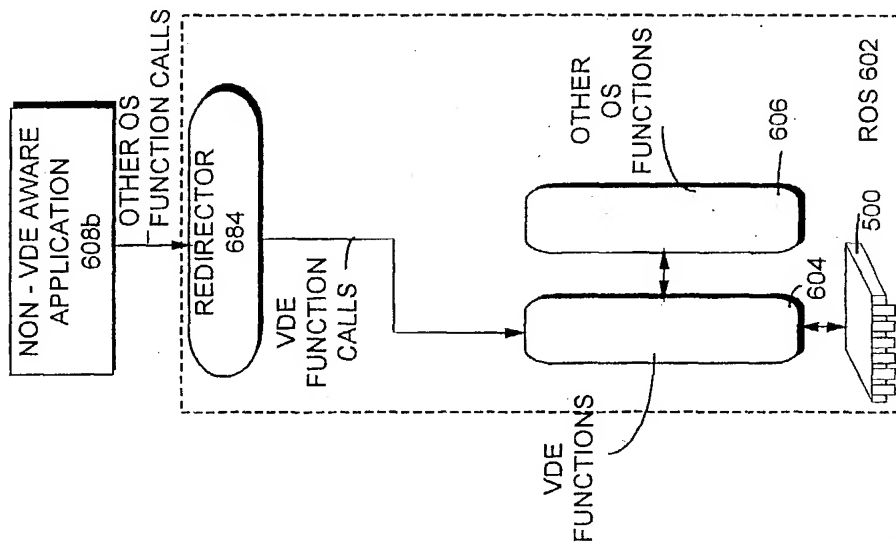
FIG. 9



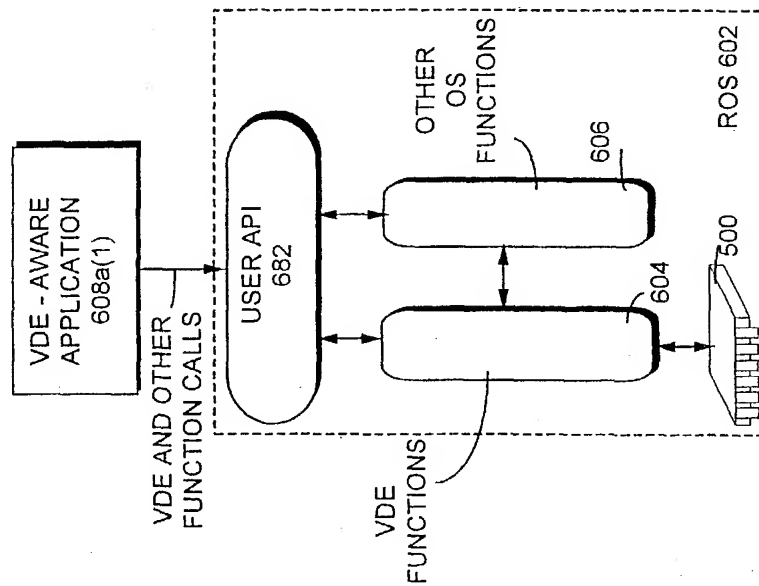
**FIG. 11C**

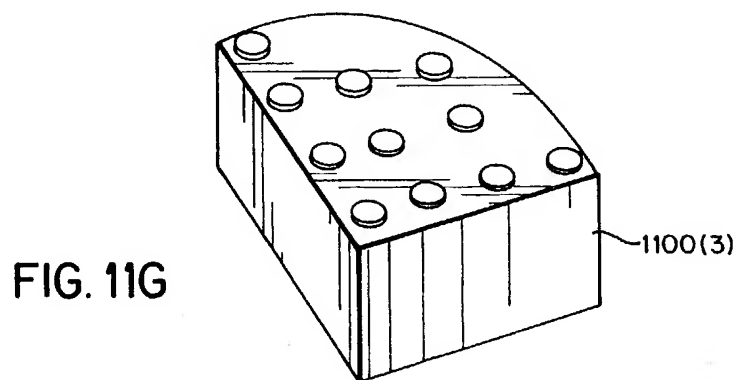
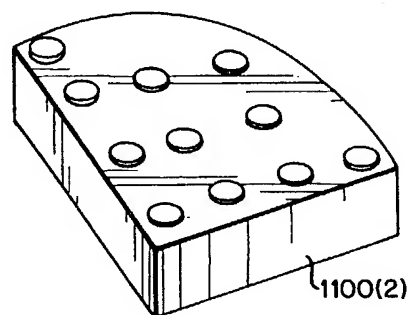
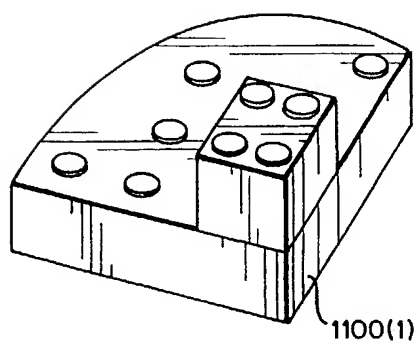
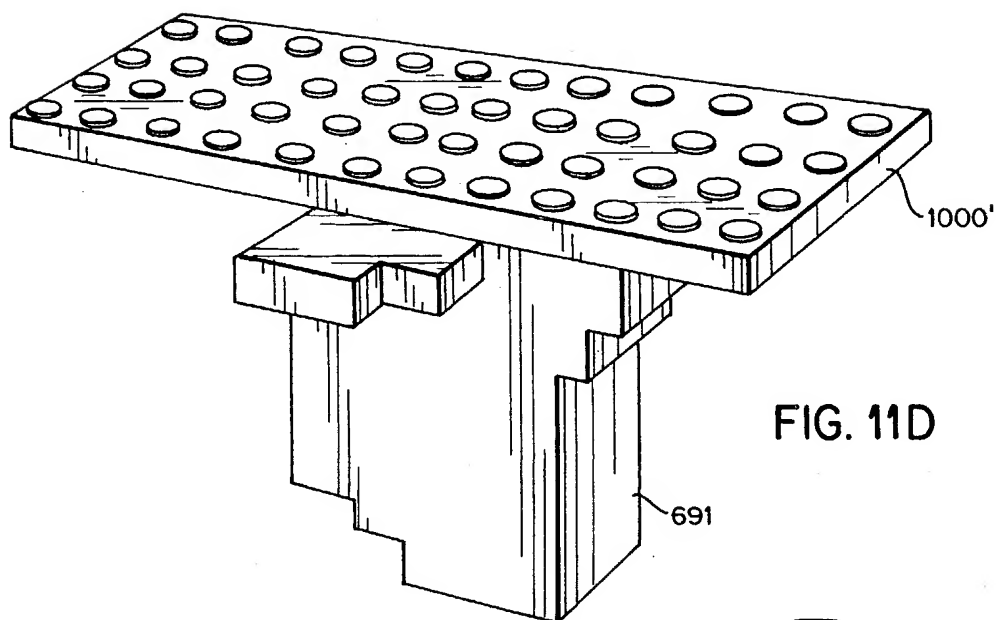


**FIG. 11B**



**FIG. 11A**





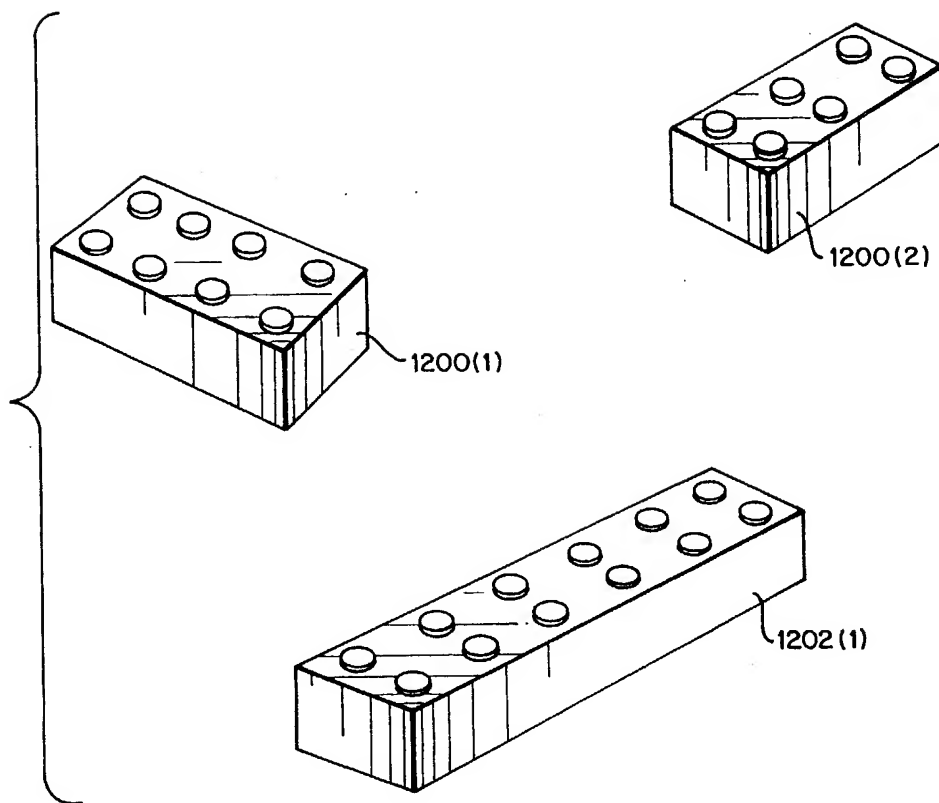
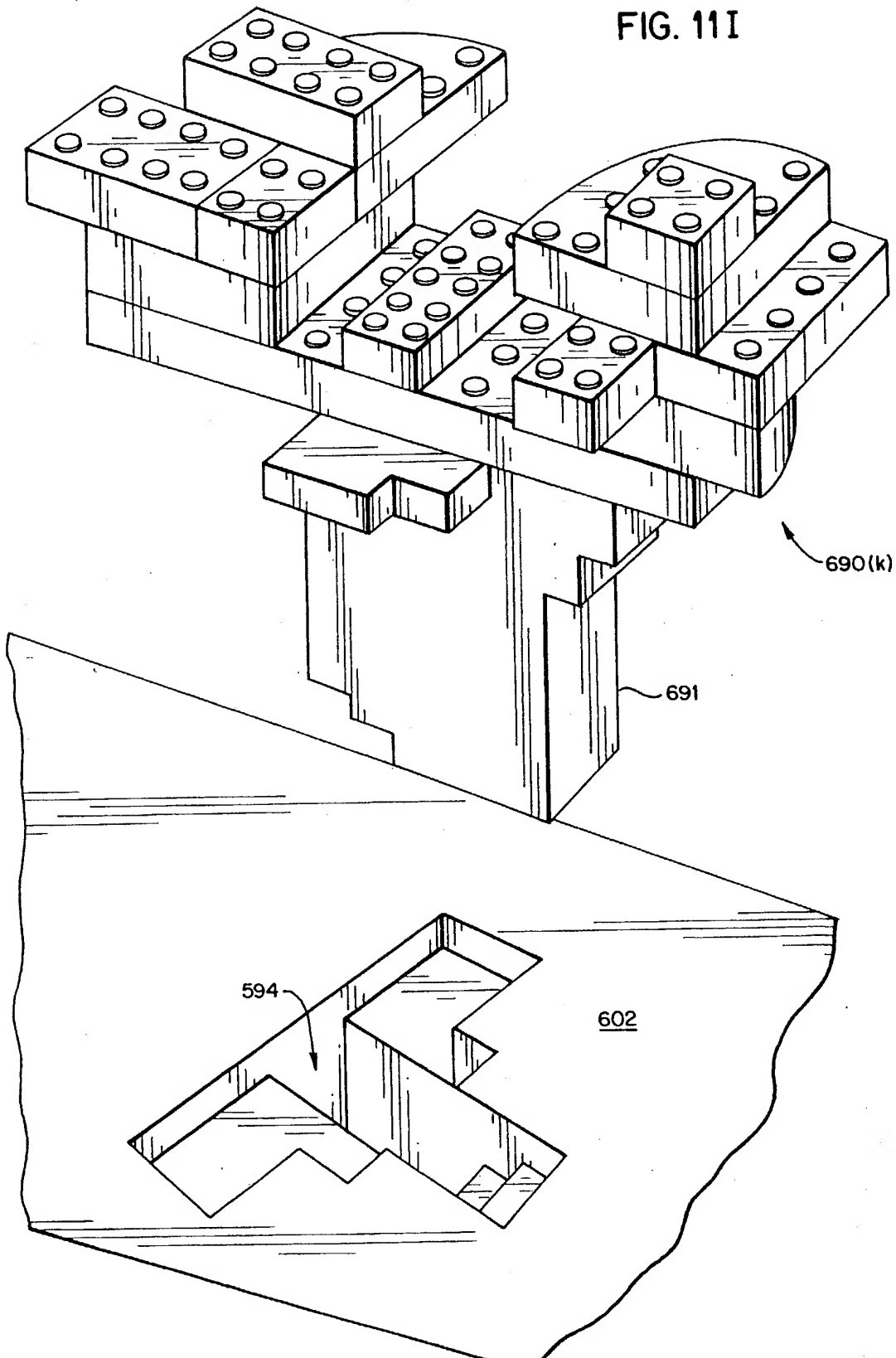
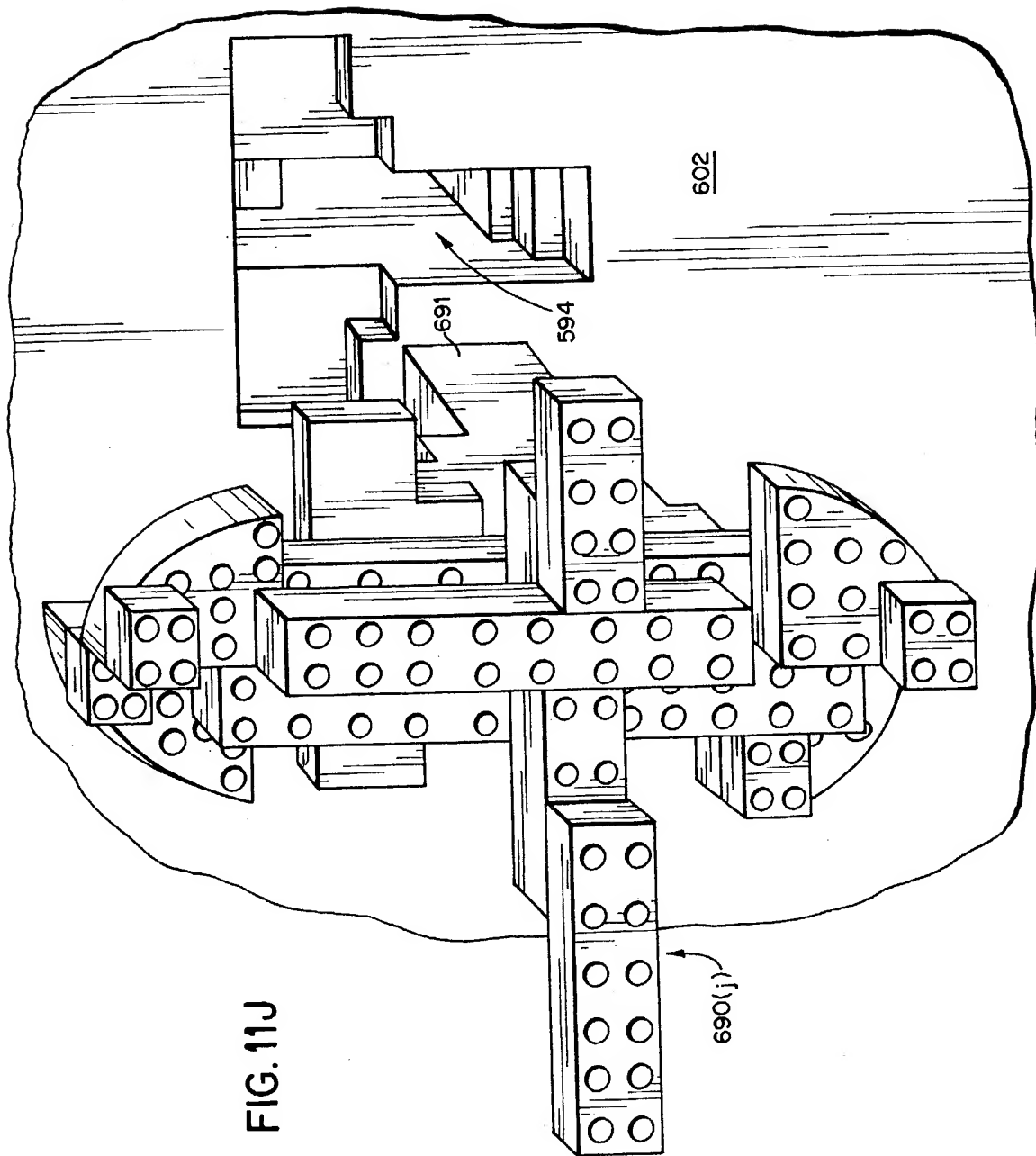


FIG. 11H

FIG. 11I





FILE SYSTEM 687

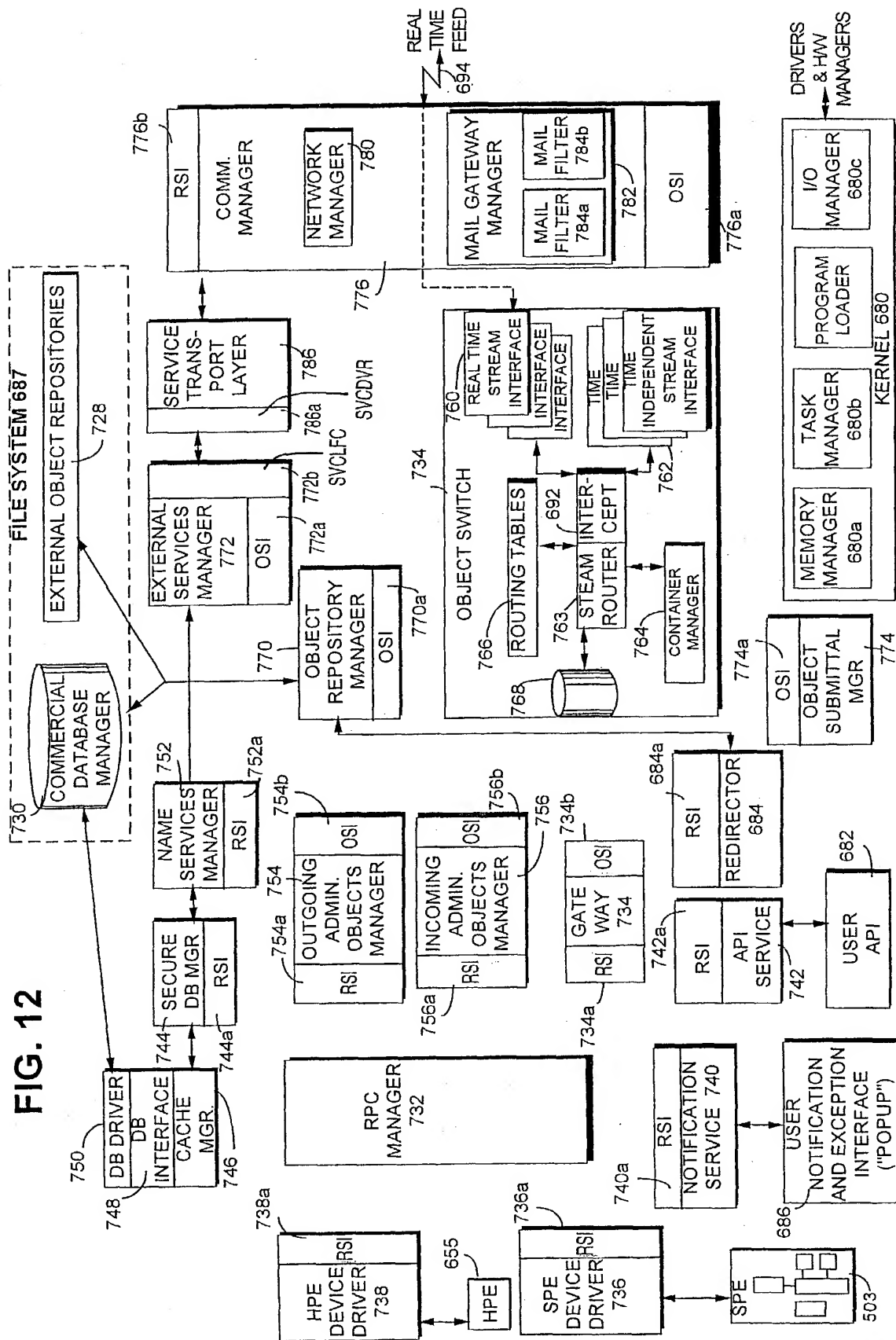


FIG. 12A

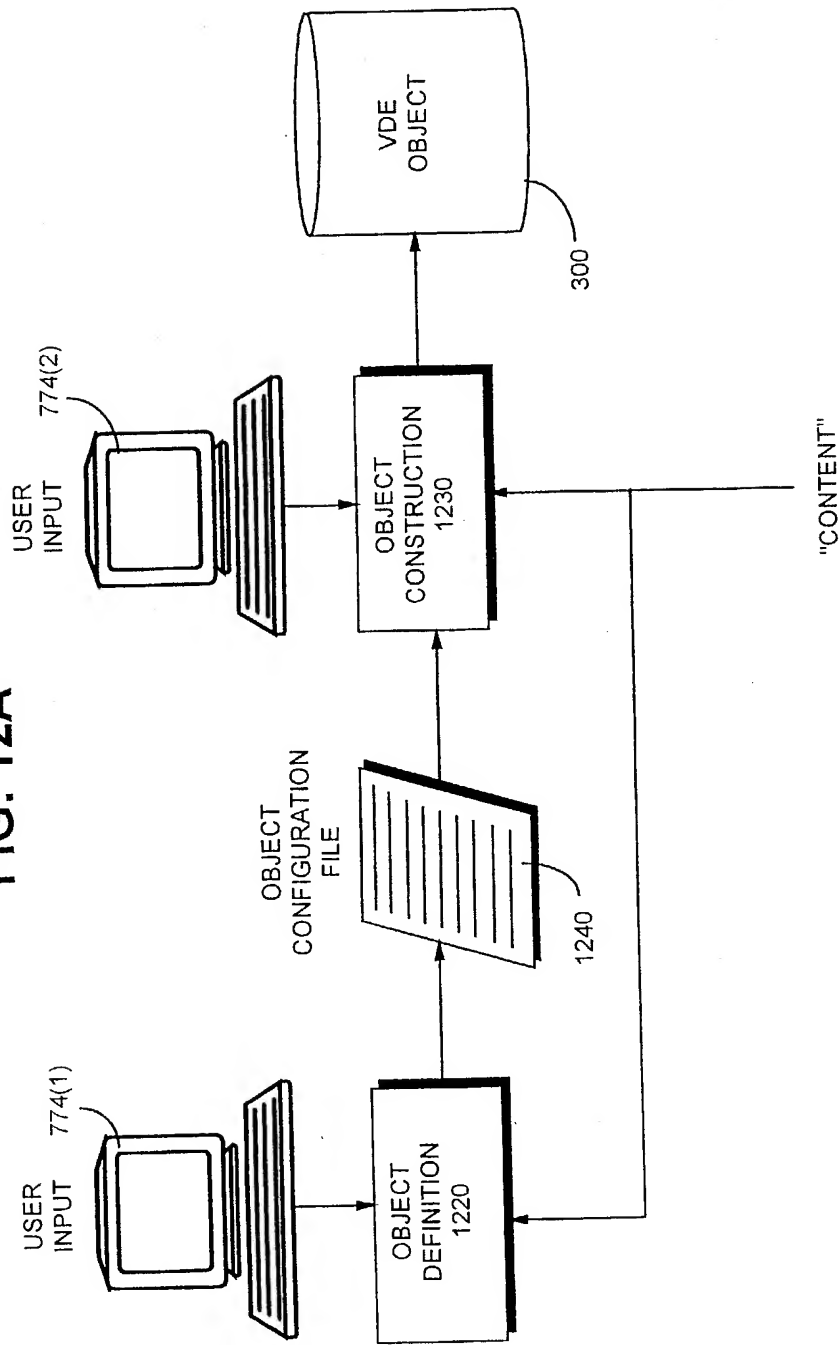
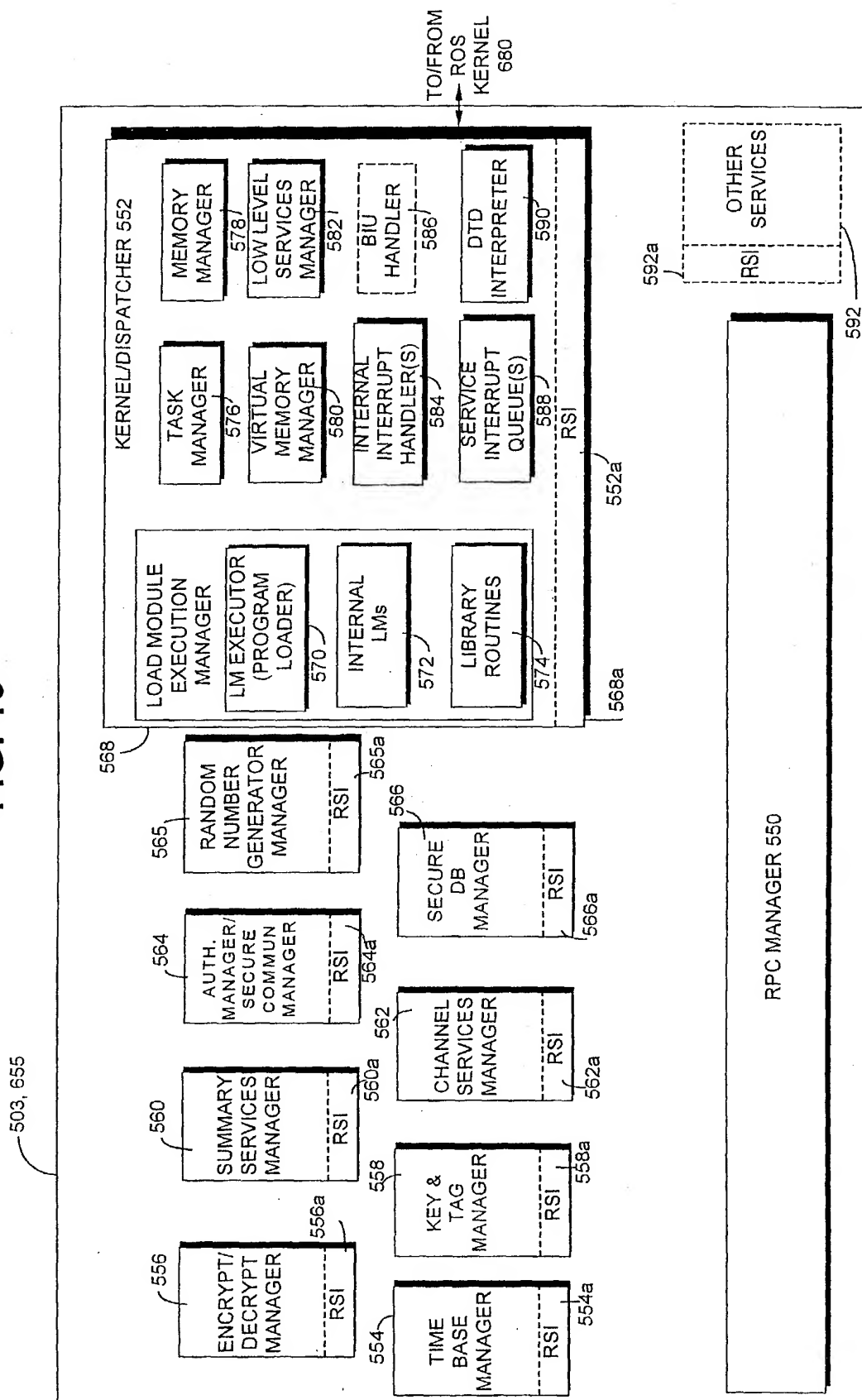


FIG. 13



**FIG. 14A**

<b>DEVICE FIRM WIRE LOW LEVEL SERVICES 582</b>	<b>TIME BASE MANAGER 554</b>
INITIALIZATION	<b>ENCRYPTION/DECRYPTION MANAGER 556</b>
POST	PK
DOWNLOAD CHALLENGE/RESPONSE AND AUTHENTICATION	BULK
RECOVERY	<b>KEY AND TAG MANAGER 558</b>
EEPROM/FLASH MEMORY MANAGER	KEY STORAGE IN EEPROM
<b>KERNEL/DISPATCHER 552</b>	KEY LOCATOR
INITIALIZATION	KEY GENERATOR
TASK MANAGER 576 (SLEEP/AWAKE/CONTEXT SWAP)	CONVOLUTION ALGORITHM
INTERRUPT HANDLER 584 (TIMER/BIU/POWER FAIL/WATCHDOG TIMER/ENCRYPTION COMPLETED)	<b>SUMMARY SERVICES MANAGER 560</b>
BIU HANDLER 586	EVENT SUMMARIES
<b>MEMORY MANAGER 578</b>	BUDGET SUMMARIES
INITIALIZATION (SETTING MMU TABLES)	DISTRIBUTER SUMMARY SERVICES
ALLOCATE	<b>CHANNEL SERVICES MANAGER 562</b>
DEALLOCATE	CHANNEL HEADERS
<b>VIRTUAL MEMORY MANAGER 580</b>	CHANNEL DETAILS
SWAP BLOCK PAGING	<b>LOAD MODULE EXECUTION SERVICES 568</b>
EXTERNAL MODULE PAGING	<b>AUTHENTICATION MANAGER/SECURE COMMUNICATION MANAGER 564</b>
MEMORY COMPRESS	<b>DATABASE MANAGER 566</b>
<b>RPC AND TABLES 550</b>	MANAGEMENT FILE SUPPORT
INITIALIZATION	TRANSACTION AND SEQUENCE NUMBER SUPPORT
MESSAGING CODE /SERVICES MANAGER	SRN/ HASH
SEND/RECEIVE	<b>DTD INTERPRETER 590</b>
STATUS	<b>LIBRARY ROUTINES 574</b>
RPC DISPATCH TABLE	I/O CALLS (STRING SEARCH ETC.)
RPC SERVICE TABLE	MISC. ITEMS THAT ARE PROBABLY LIBRARY ROUTINES
	TAG CHECKING, MD5, CRC'S
	<b>INTERNAL LM'S 572 FOR BASIC METHODS</b>
	METER LOAD MODULE(S)
	BILLING LOAD MODULE(S)
	BUDGET LOAD MODULE(S)
	AUDIT LOAD MODULE(S)
	READ OBJECT LOAD MODULE(S)
	WRITE OBJECT LOAD MODULE(S)
	OPEN OBJECT LOAD MODULE(S)
	CLOSE OBJECT LOAD MODULE(S)

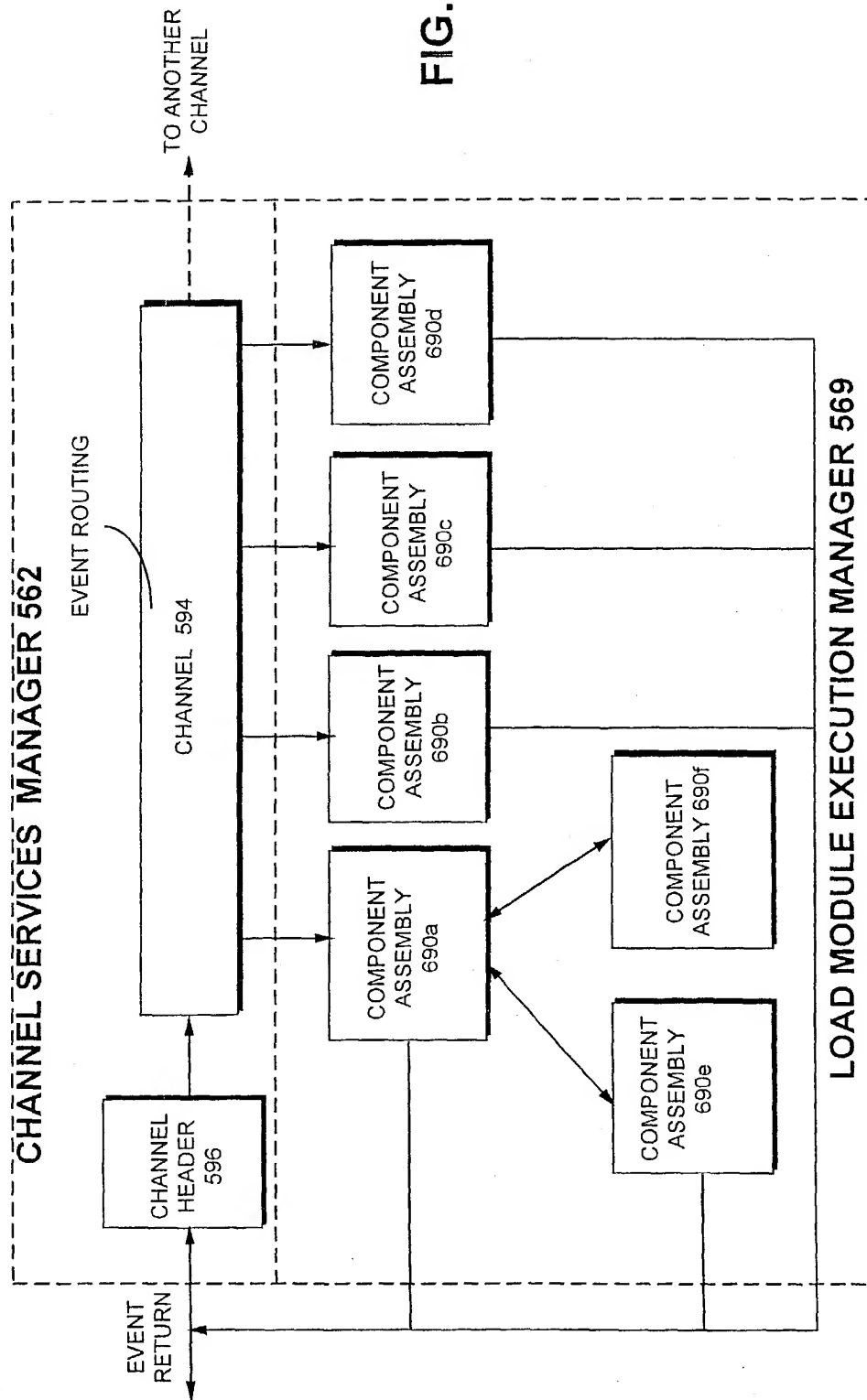
# FIG. 14B

⋮

PUBLIC KEY AND PRIVATE KEY, SYSTEM ID, AUTHENTICATION CERTIFICATE, VDE SYSTEM PUBLIC KEY, PRIVATE DES KEY
TOP LEVEL KEYS FOR OBJECTS
TOP LEVEL BUDGET INFO
METER SUMMATION VALUES
KEY RECORDS FOR BUDGET RECORDS, AUDIT RECORDS, STATIC MANAGEMENT RECORDS, UPDATED MANAGEMENT RECORDS, ETC.
⋮
<b>DEVICE DATA TABLE</b>
SITE ID
TIME
ALARMS
TRANSACTION/SEQUENCE #'S
MISCELLANEOUS
<b>MEMORY MAP</b>
MAP METERS
LM/UDT TABLE
<b>TASK MANAGER 576</b>
CHANNEL(S)
<b>SUMMARY SERVICES 560</b>
<b>SECURE DATABASE TAGS</b>
SRN ENTRIES
HASH ENTRIES

# FIG. 14C

STACK	
•	
CHANNEL SWAP BLOCK	CHANNEL LM
	CHANNEL HEADER & D1
CONTROL SWAP BLOCK	CONTROL LM
	CONTROL D1
	COMMIT LM
	COMMIT D1, D2, D3
EVENT SWAP BLOCK	EVENT LM
	MAP TABLE (SINGLE) D1
METER SWAP BLOCK	METER LM
	METER UDE DELTA,DELTA'
	METER TRAIL LM
	METER TRAIL UDE DELTA,DELTA'
BUDGET SWAP BLOCK	METER LM
	METER UDE DELTA,DELTA'
	METER TRAIL LM
	METER TRAIL UDE DELTA,DELTA'
BILLING SWAP BLOCK	BILLING LM
	METER UDE
	BUDGET UDE
	BILLING TABLE UDE
	BILLING TRAIL LM
	BILLING TRAIL UDE DELTA'



**FIG. 15**

FIG. 15A

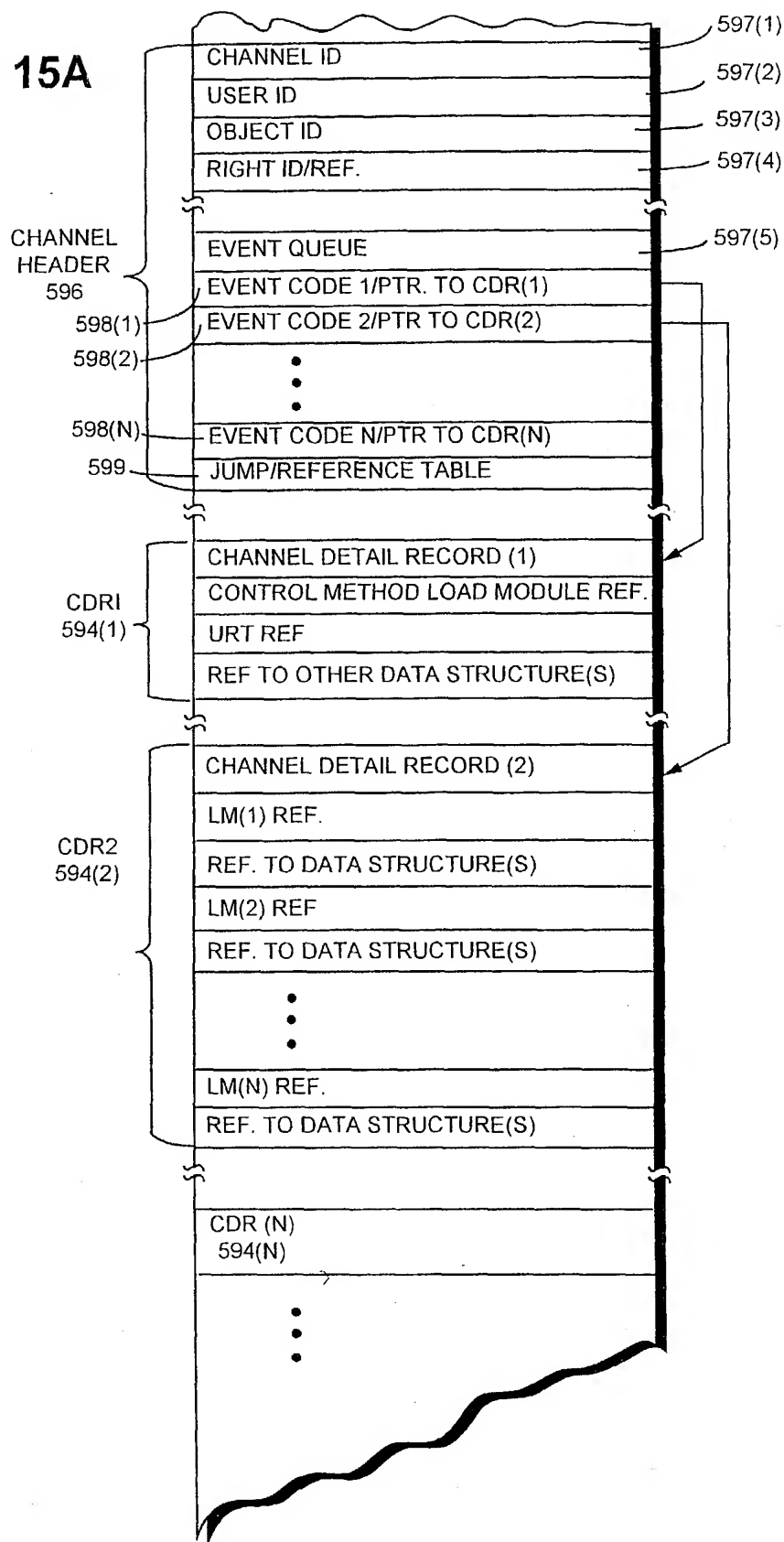


FIG. 15B

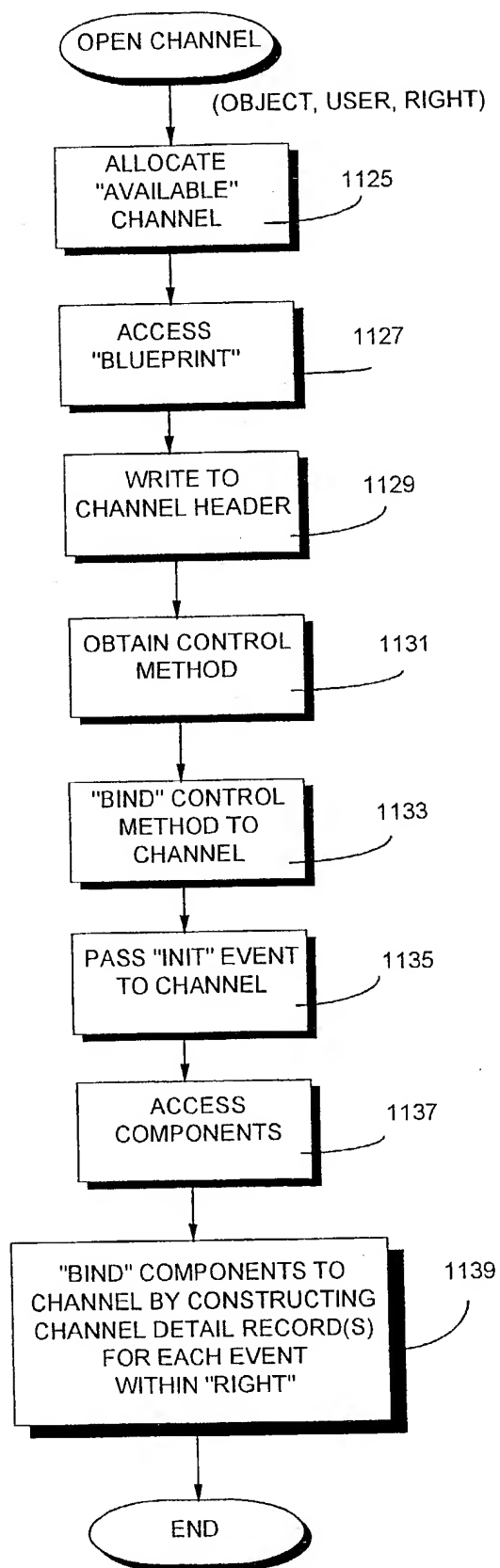
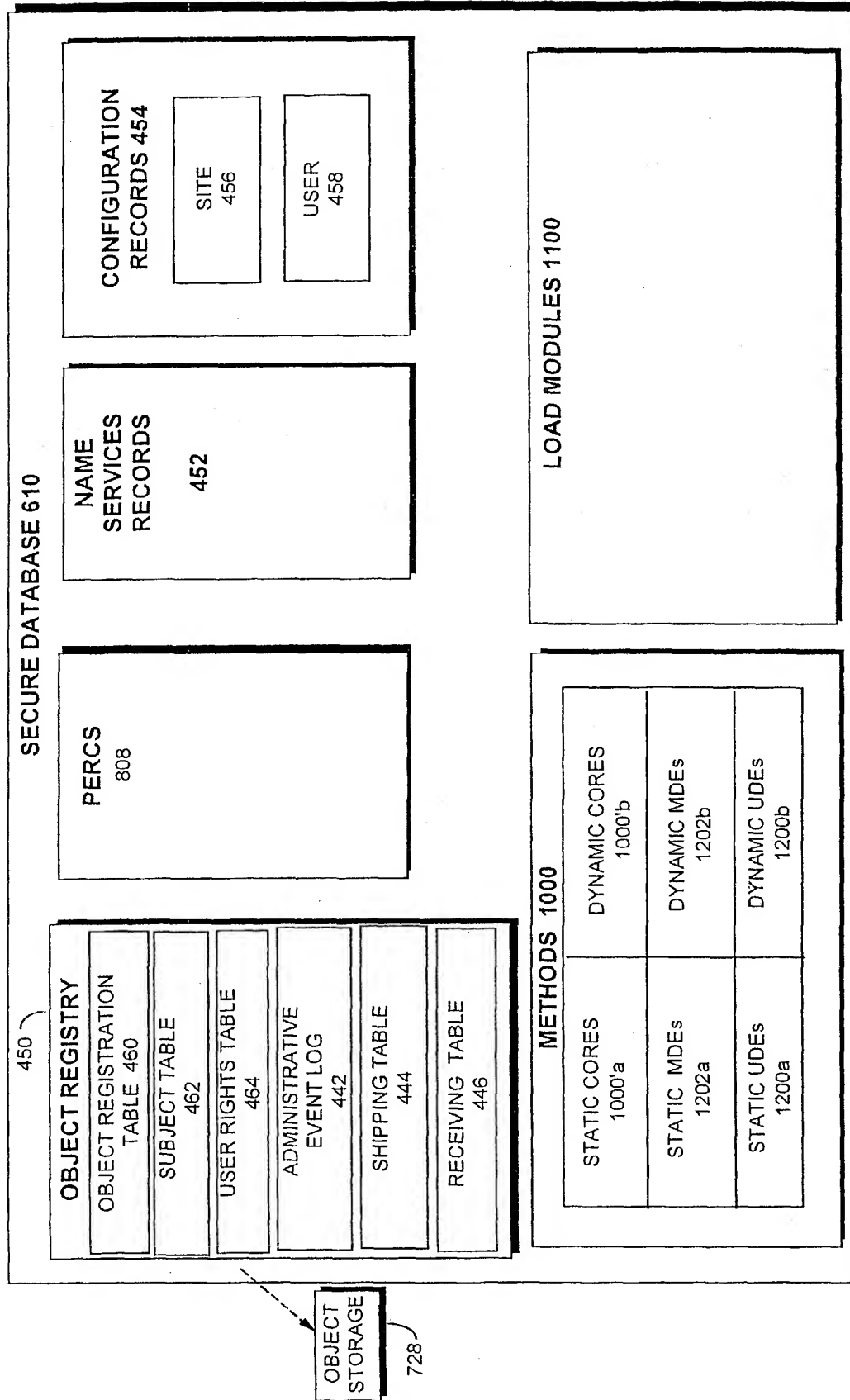


FIG. 16



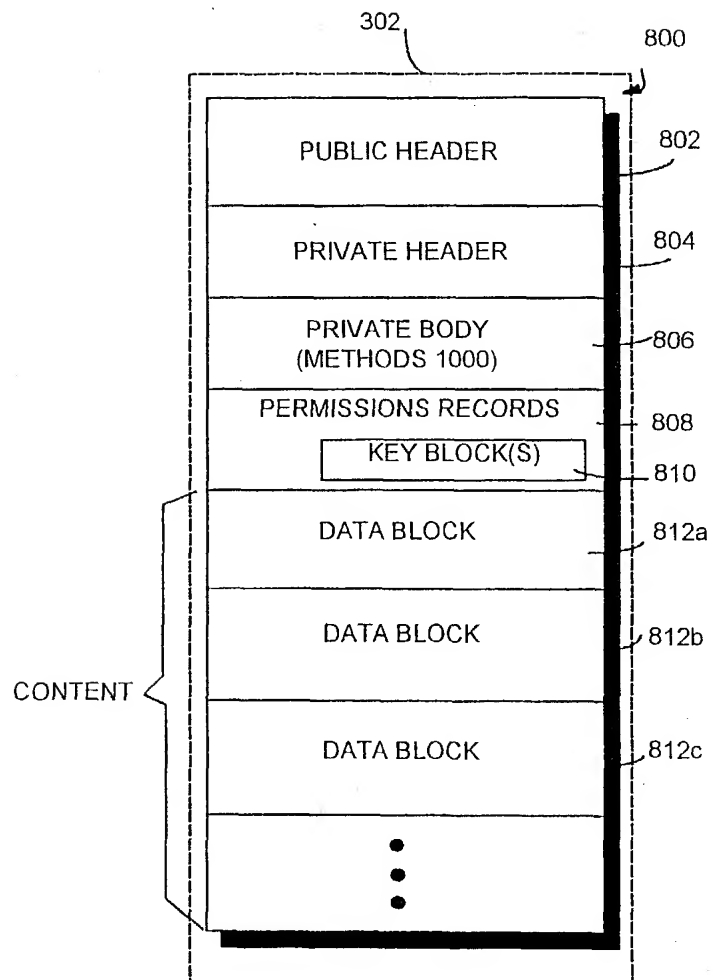
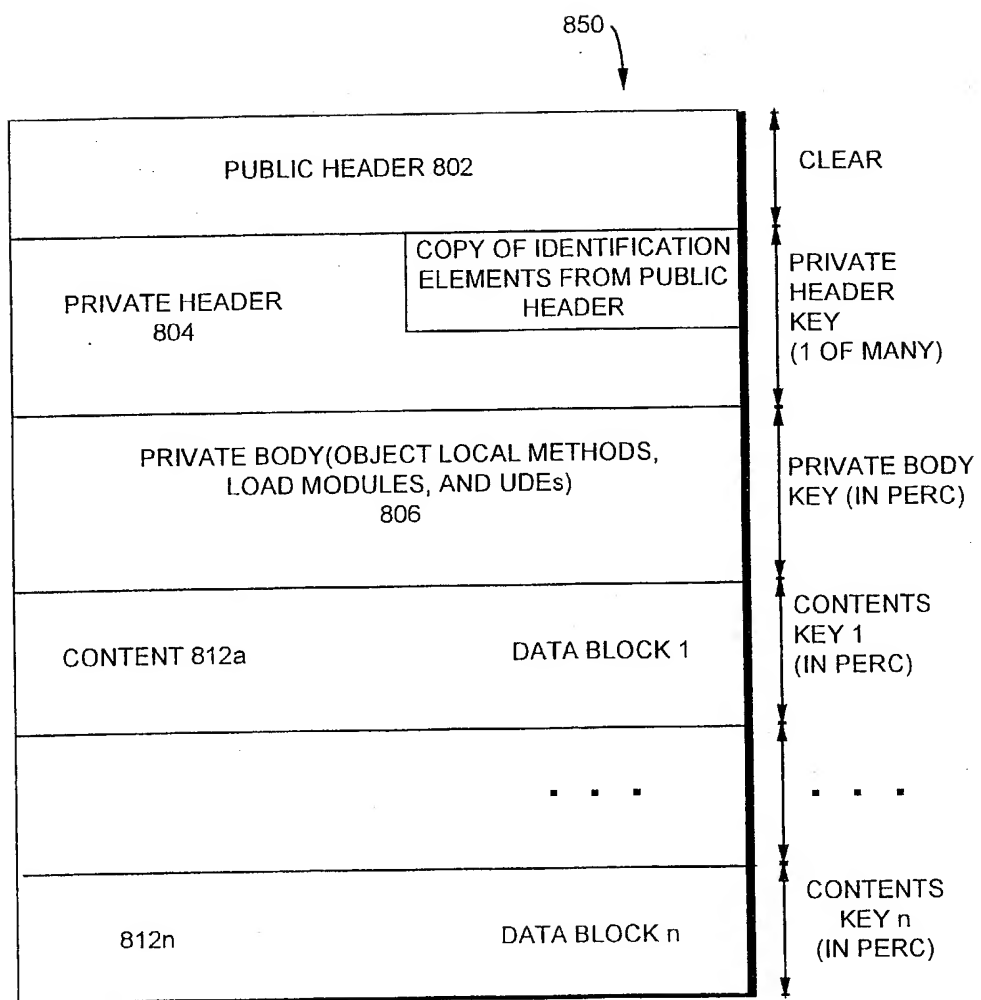
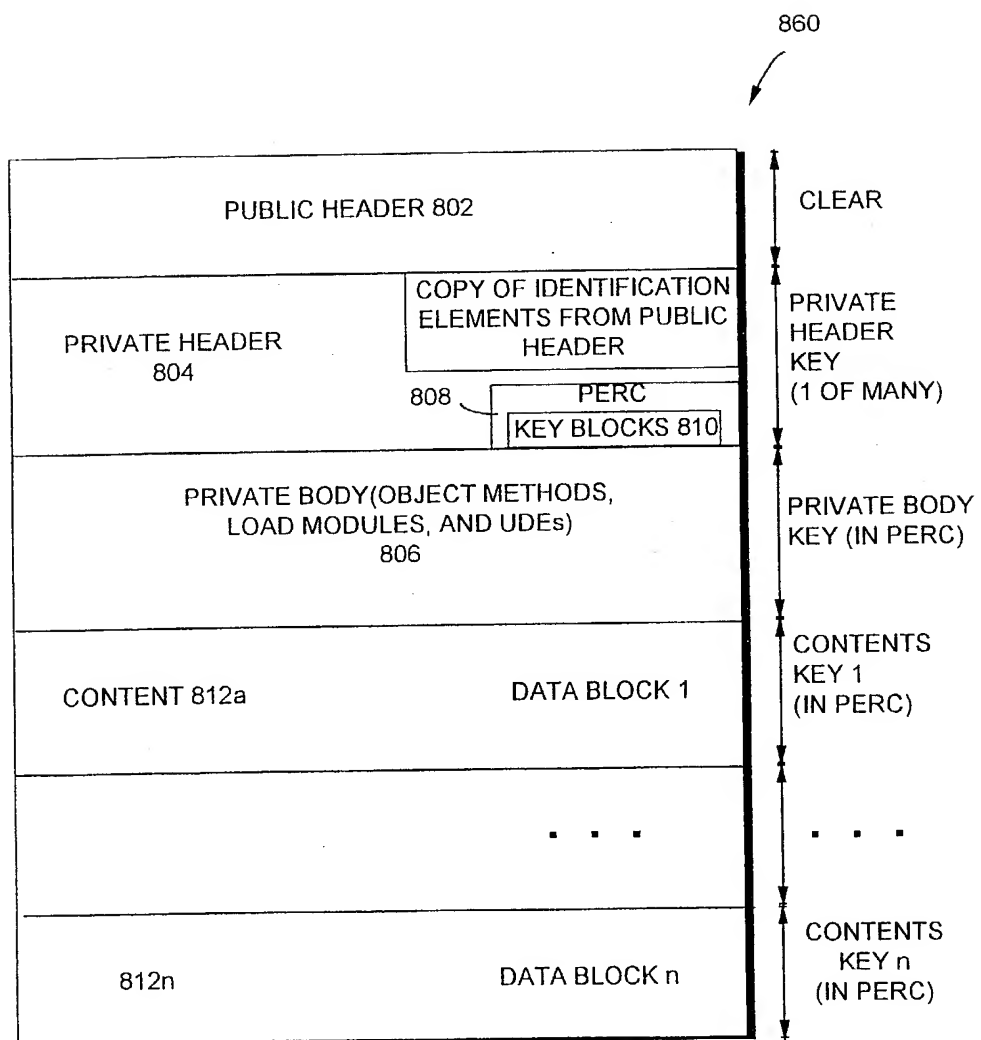


FIG. 17



**FIG. 18**



**FIG. 19**

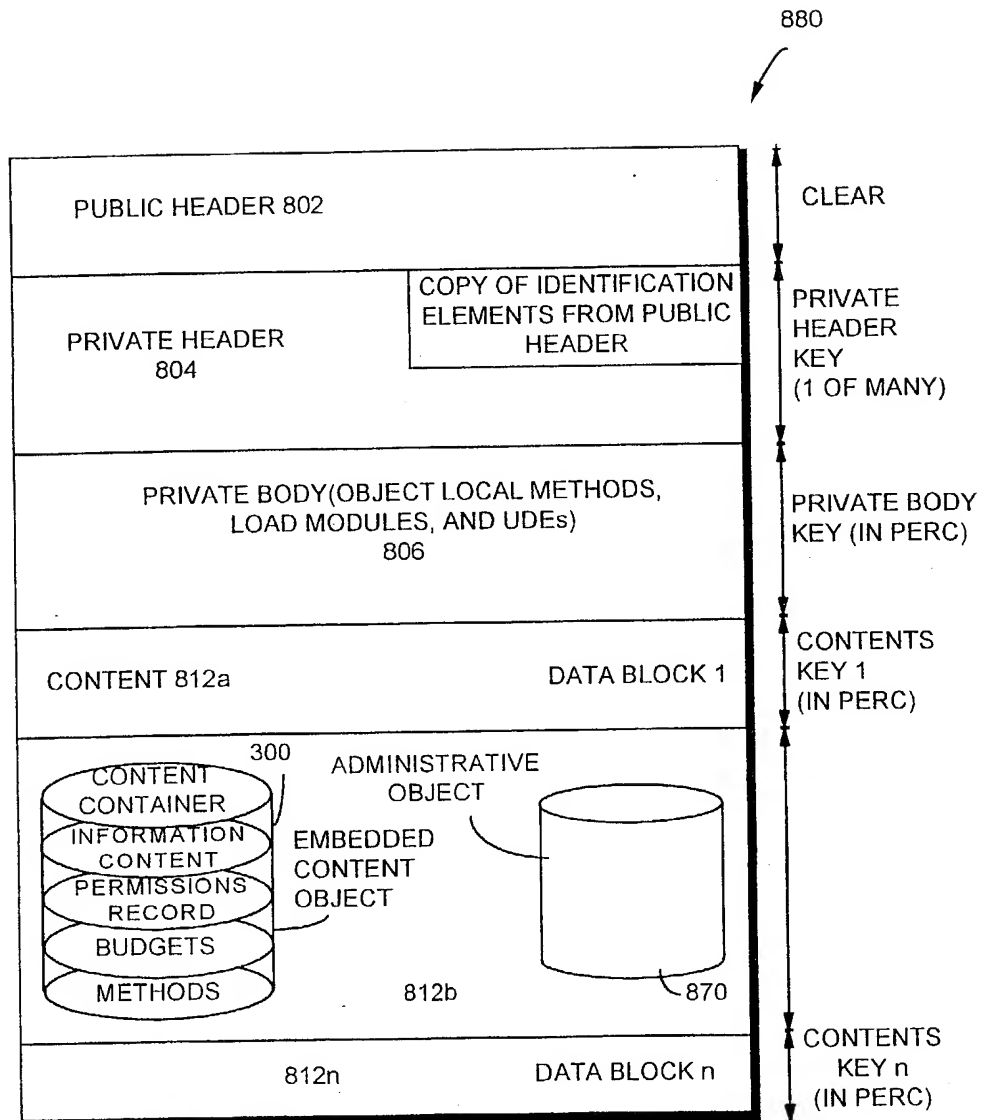
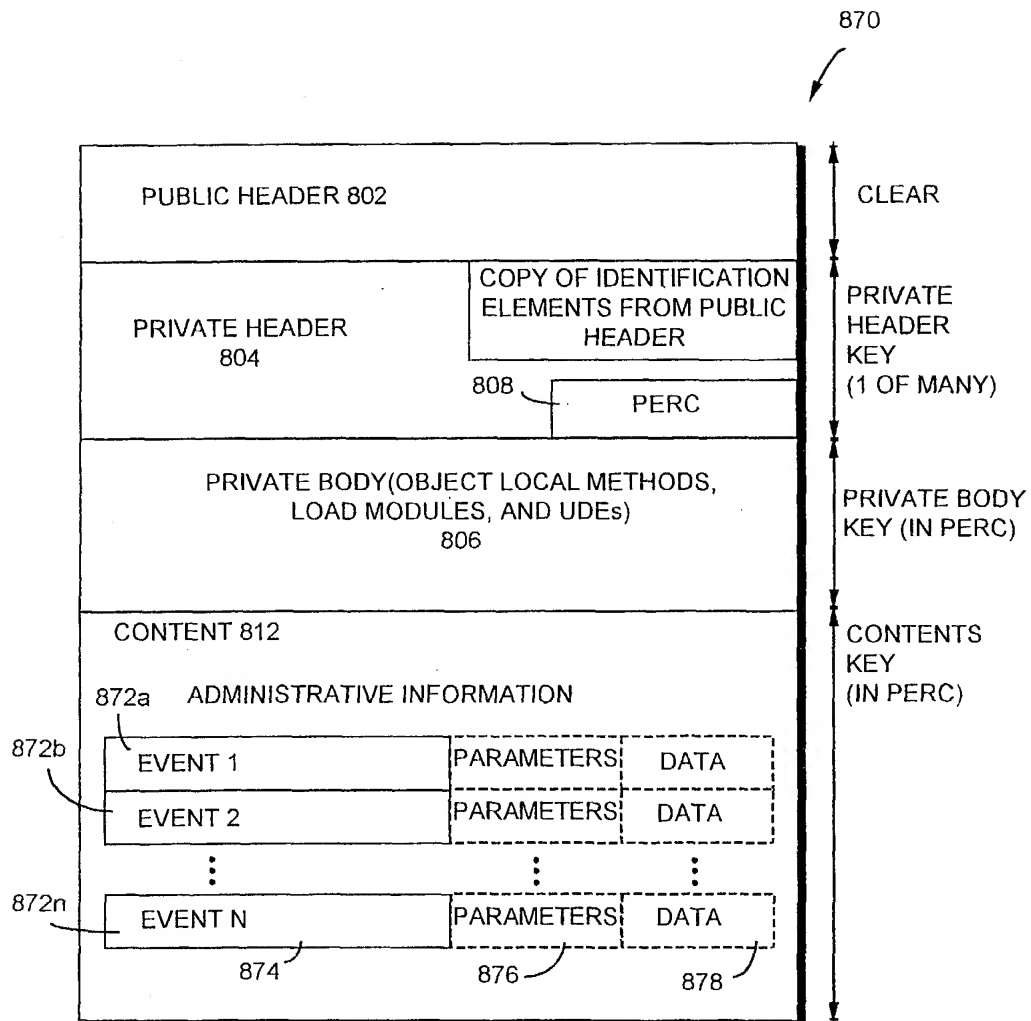


FIG. 20



**FIG. 21**

# FIG. 22

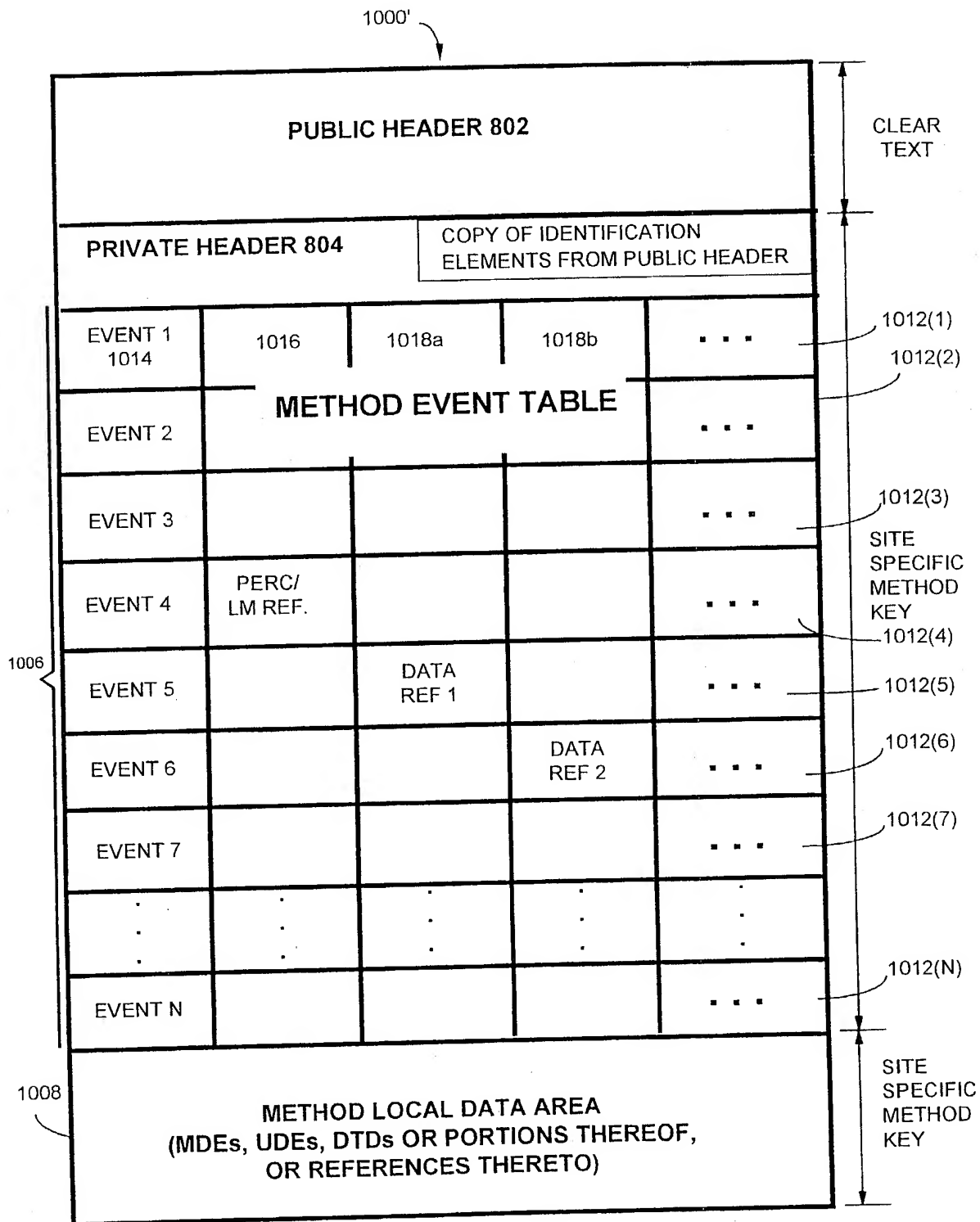
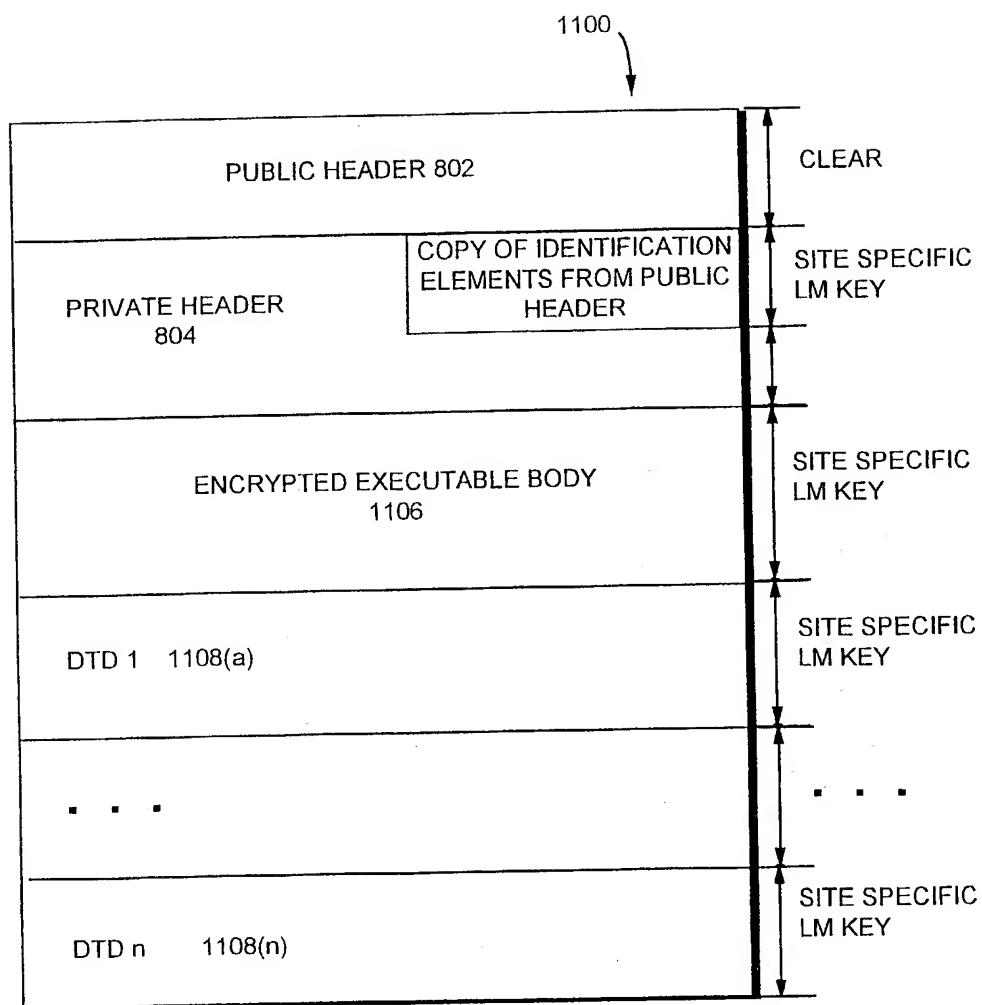
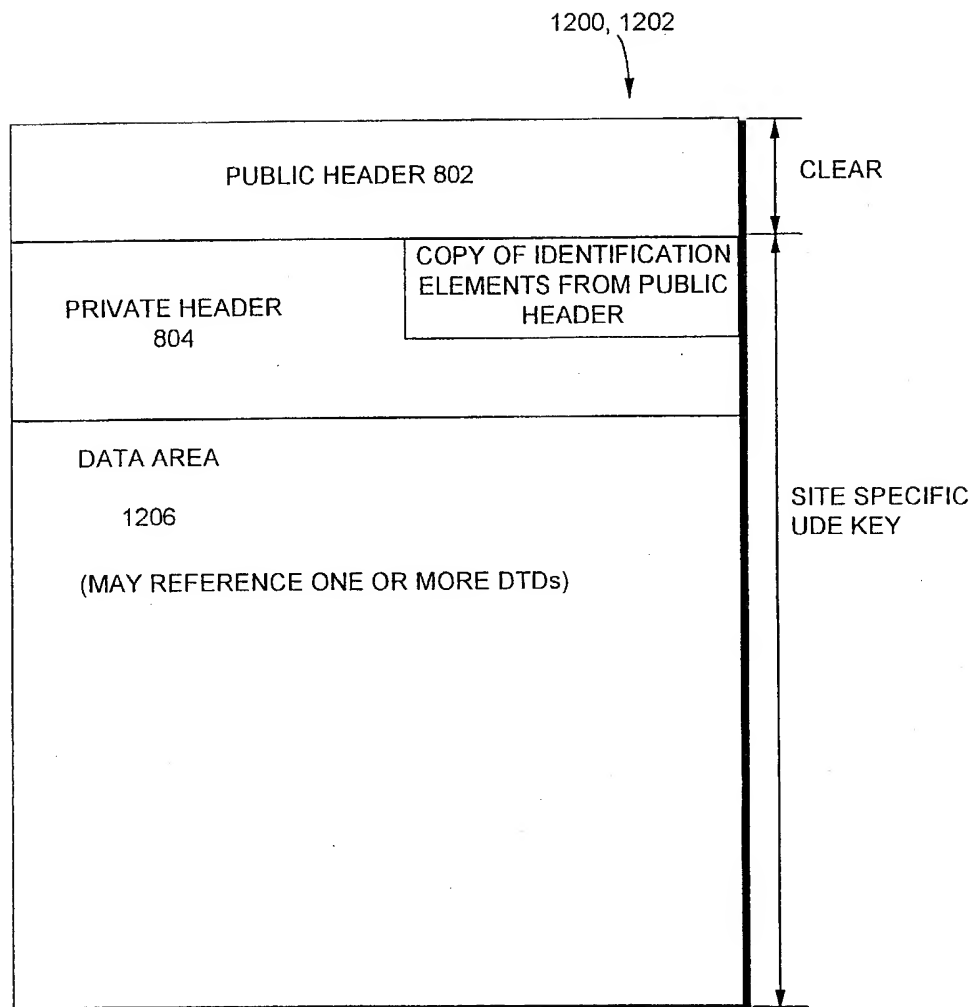


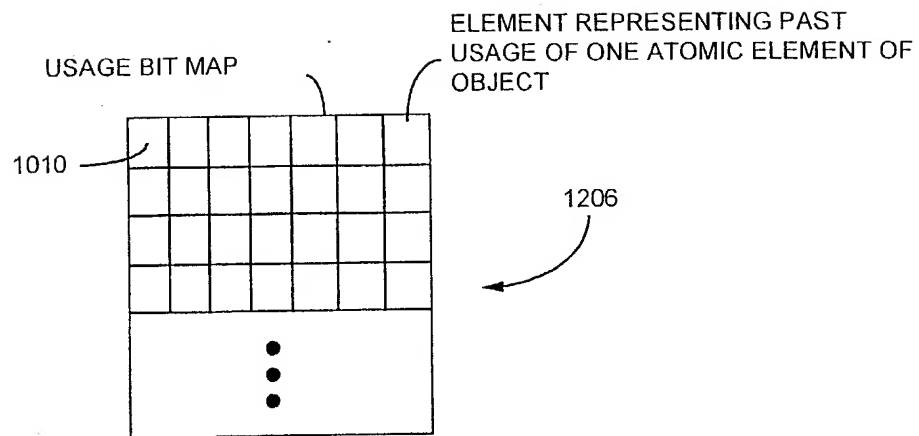
FIG. 23



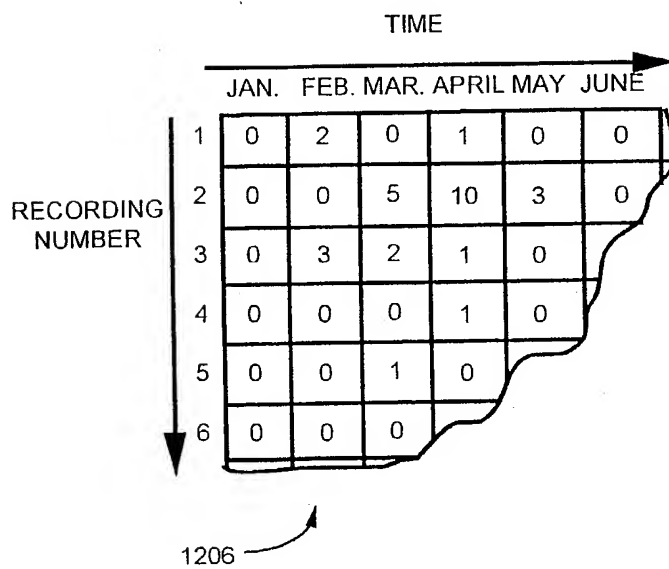
**FIG. 24**



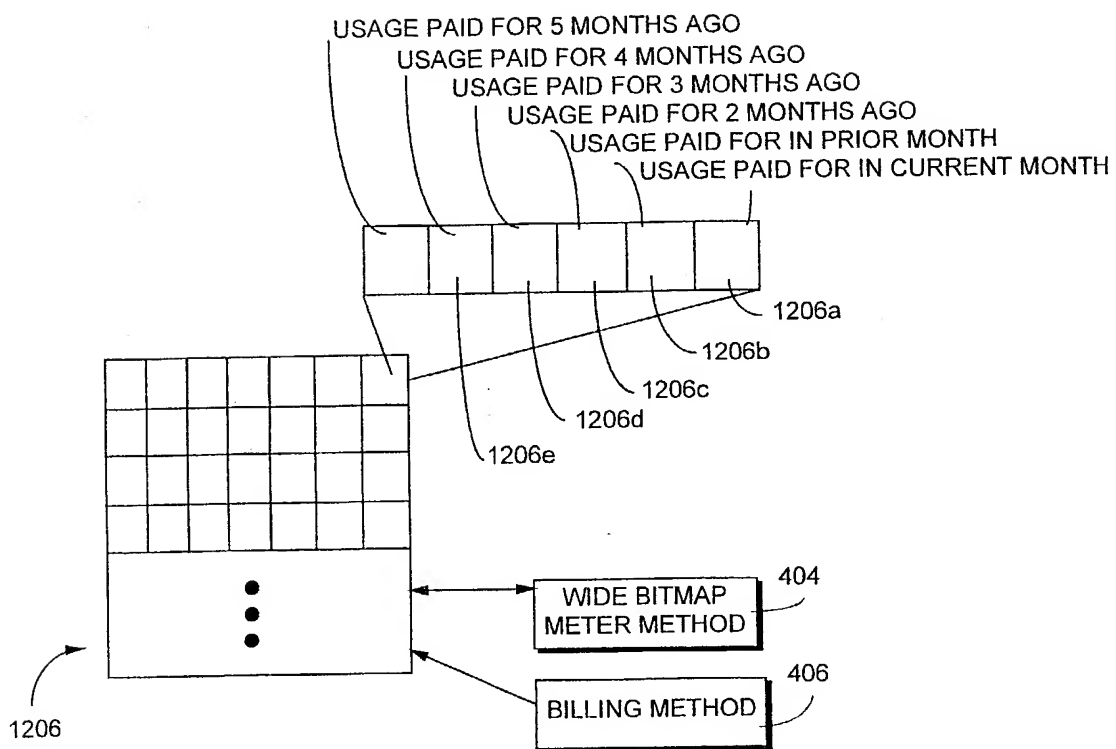
# FIG. 25A



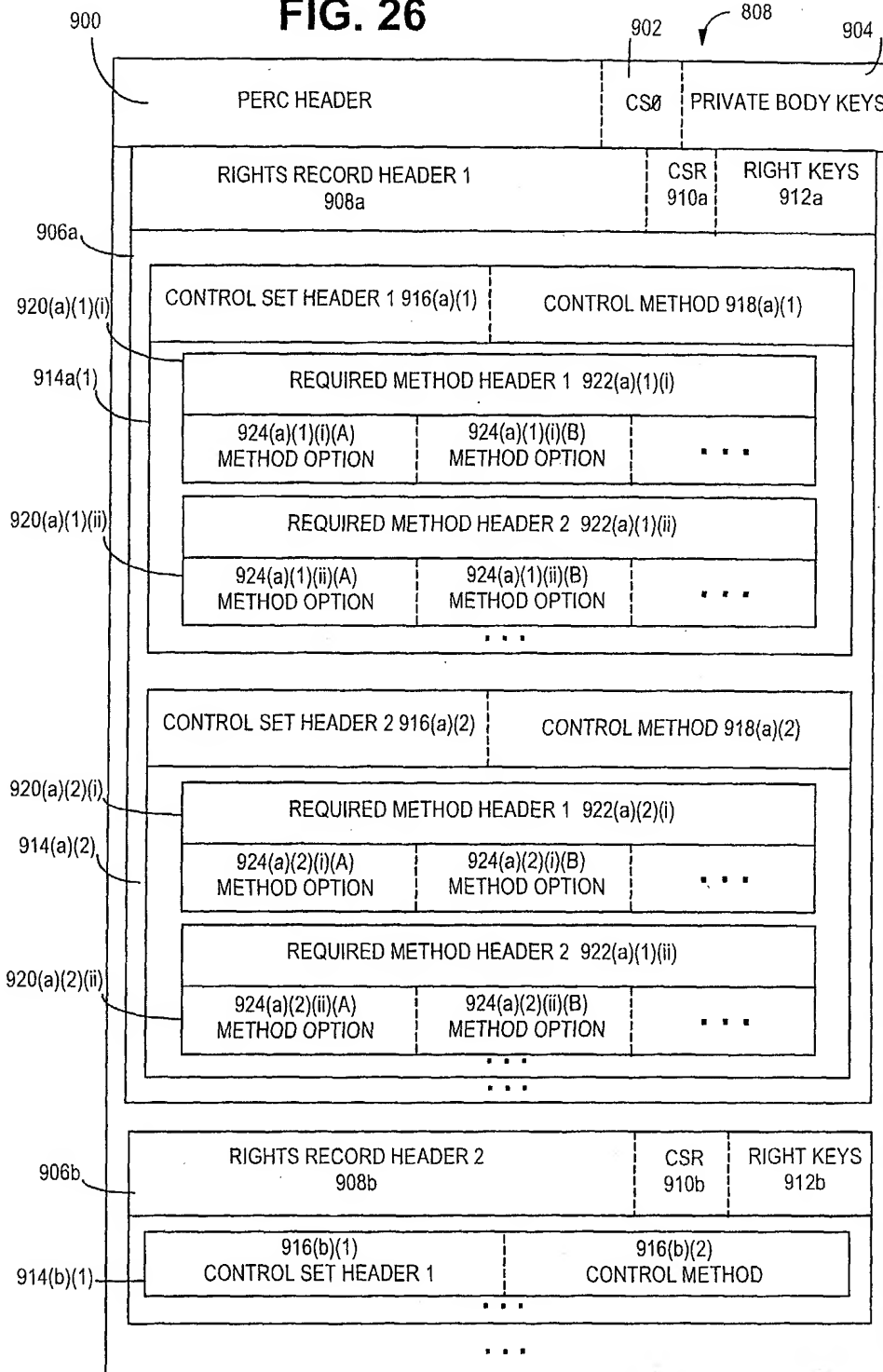
# FIG. 25B



**FIG. 25C**



# FIG. 26



# FIG. 26A

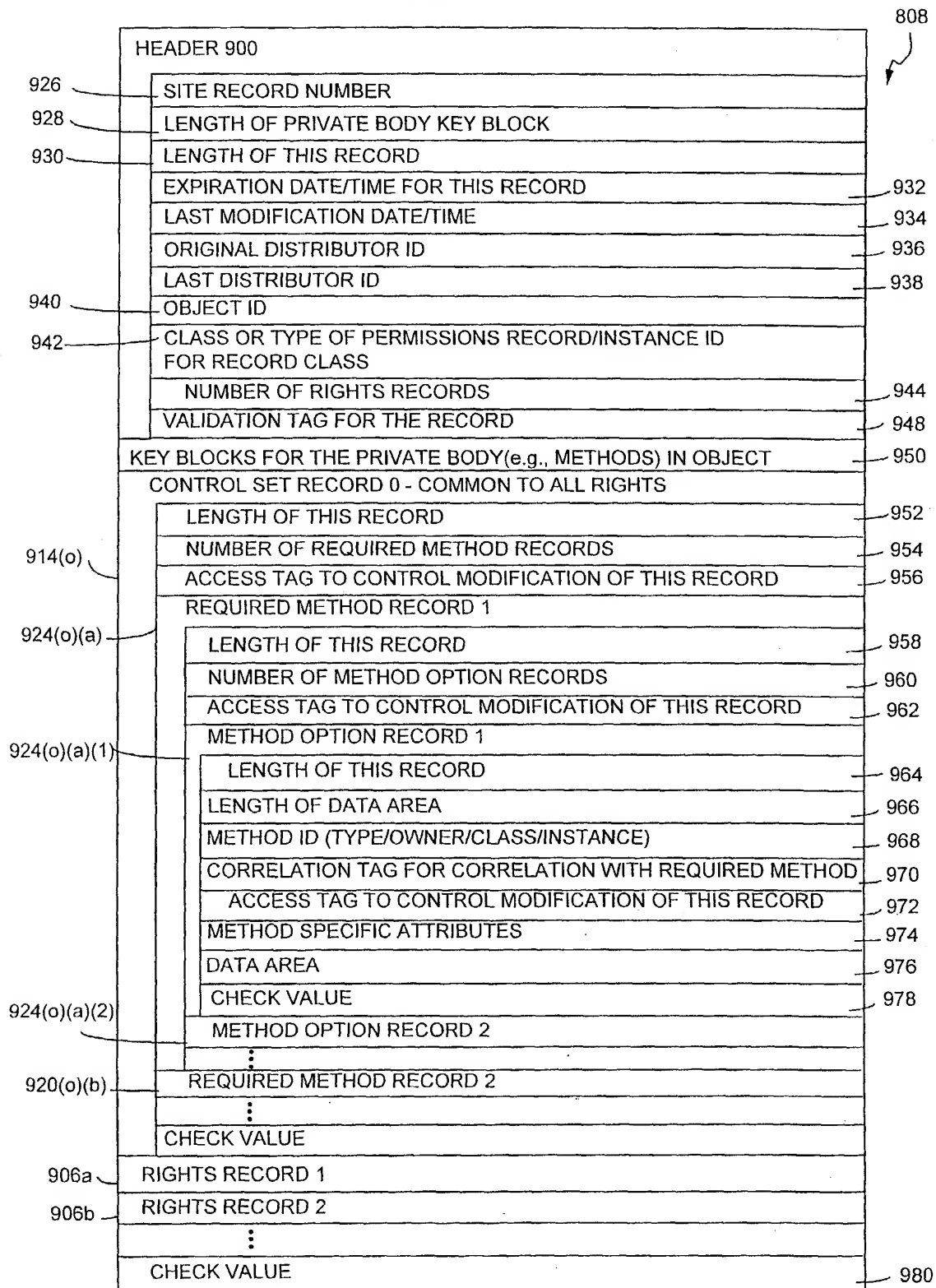
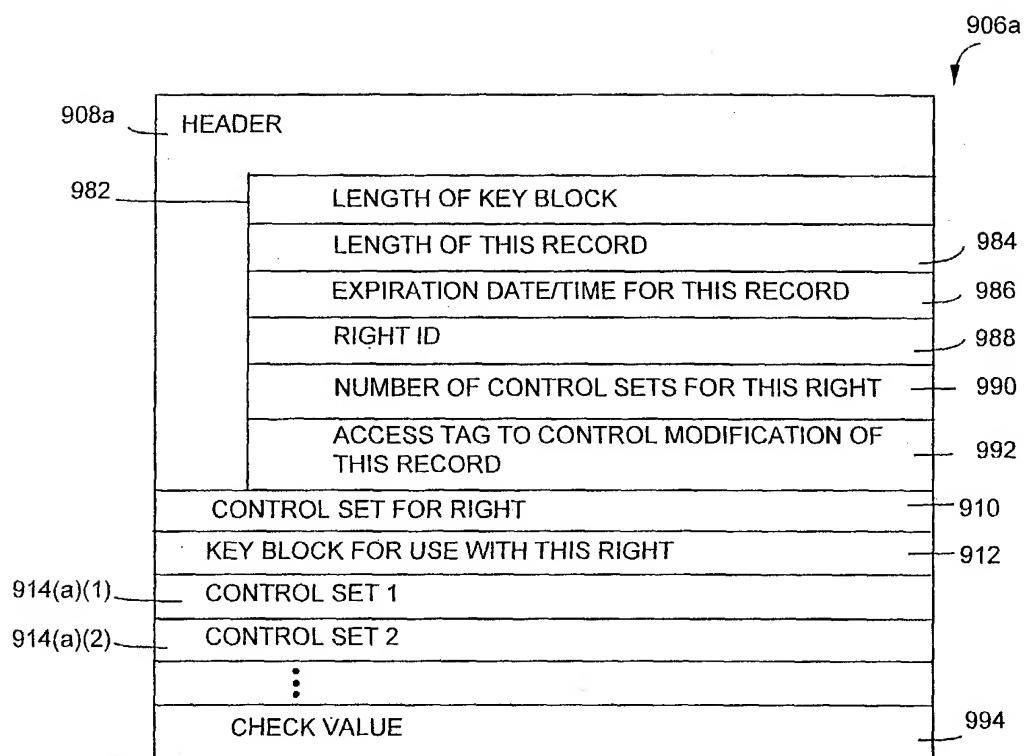
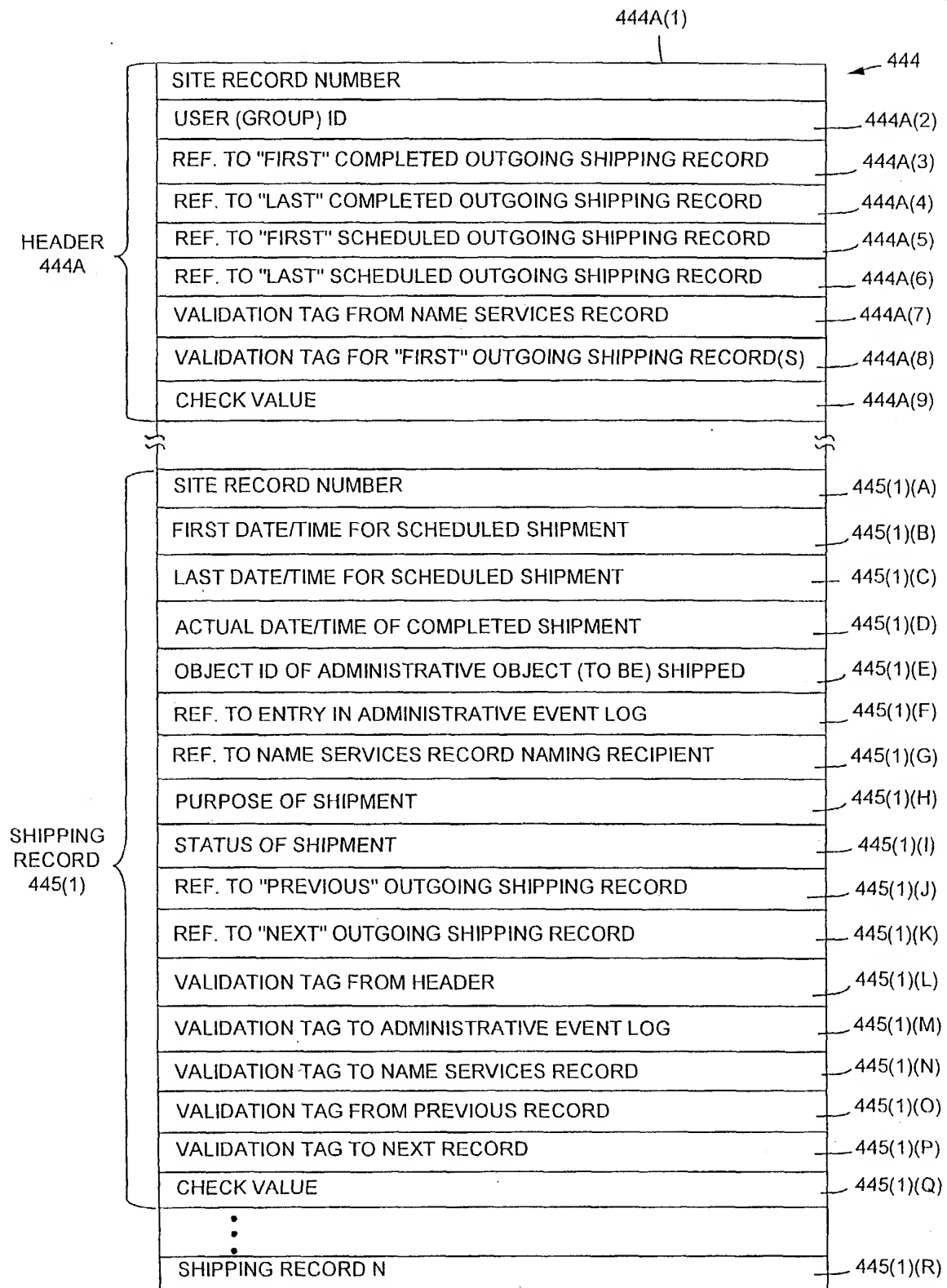


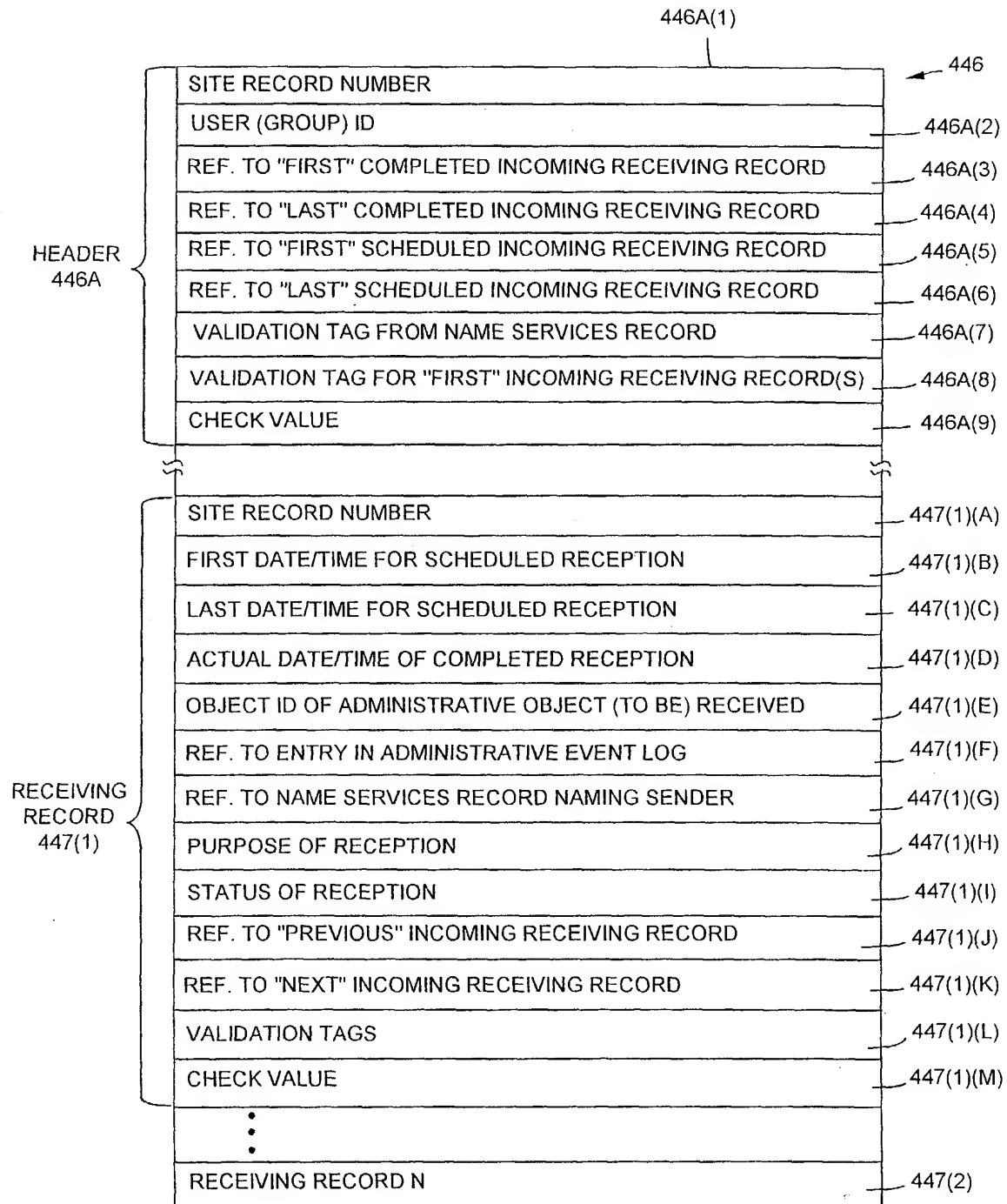
FIG. 26B



# FIG. 27



# FIG. 28



# FIG. 29

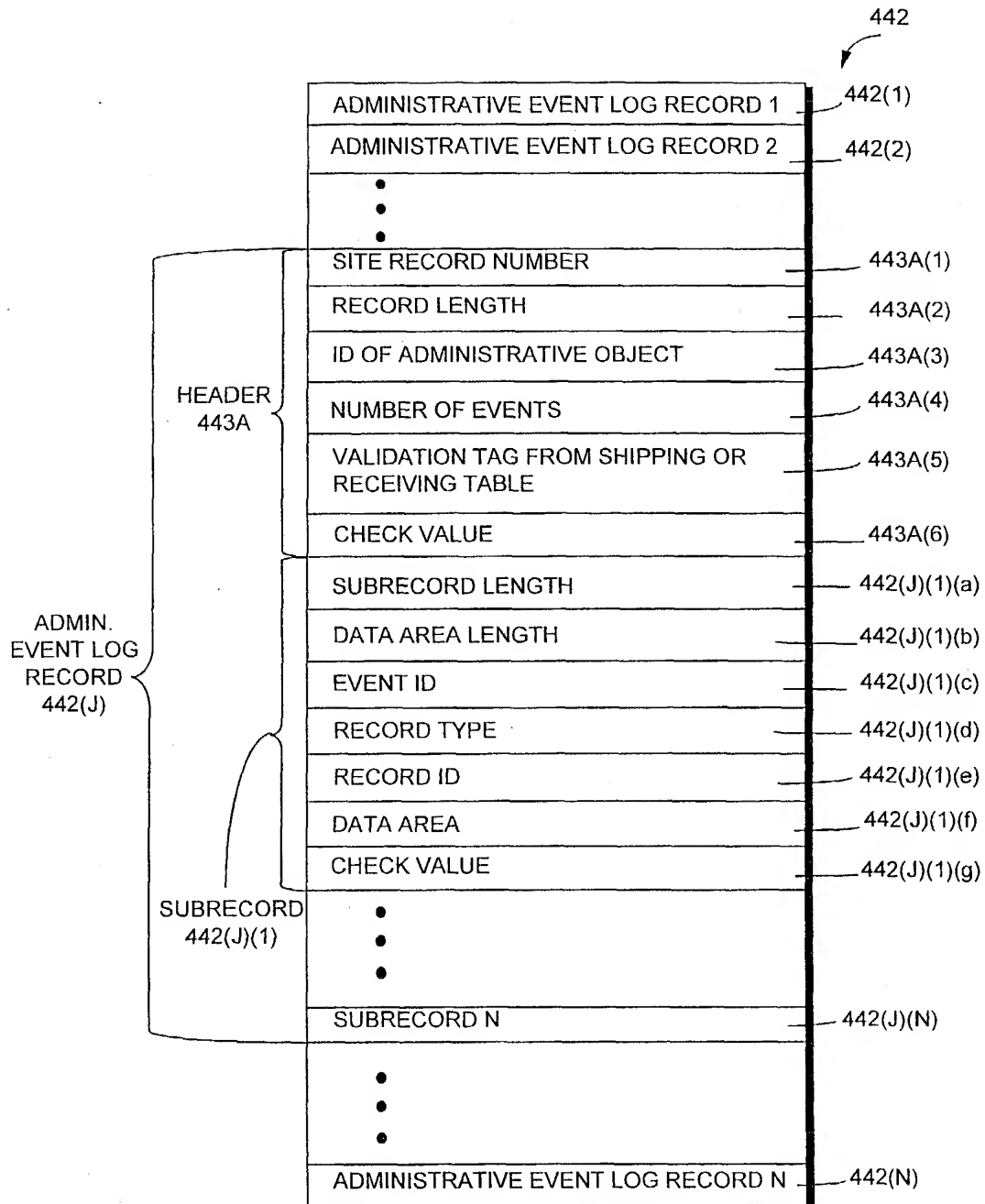
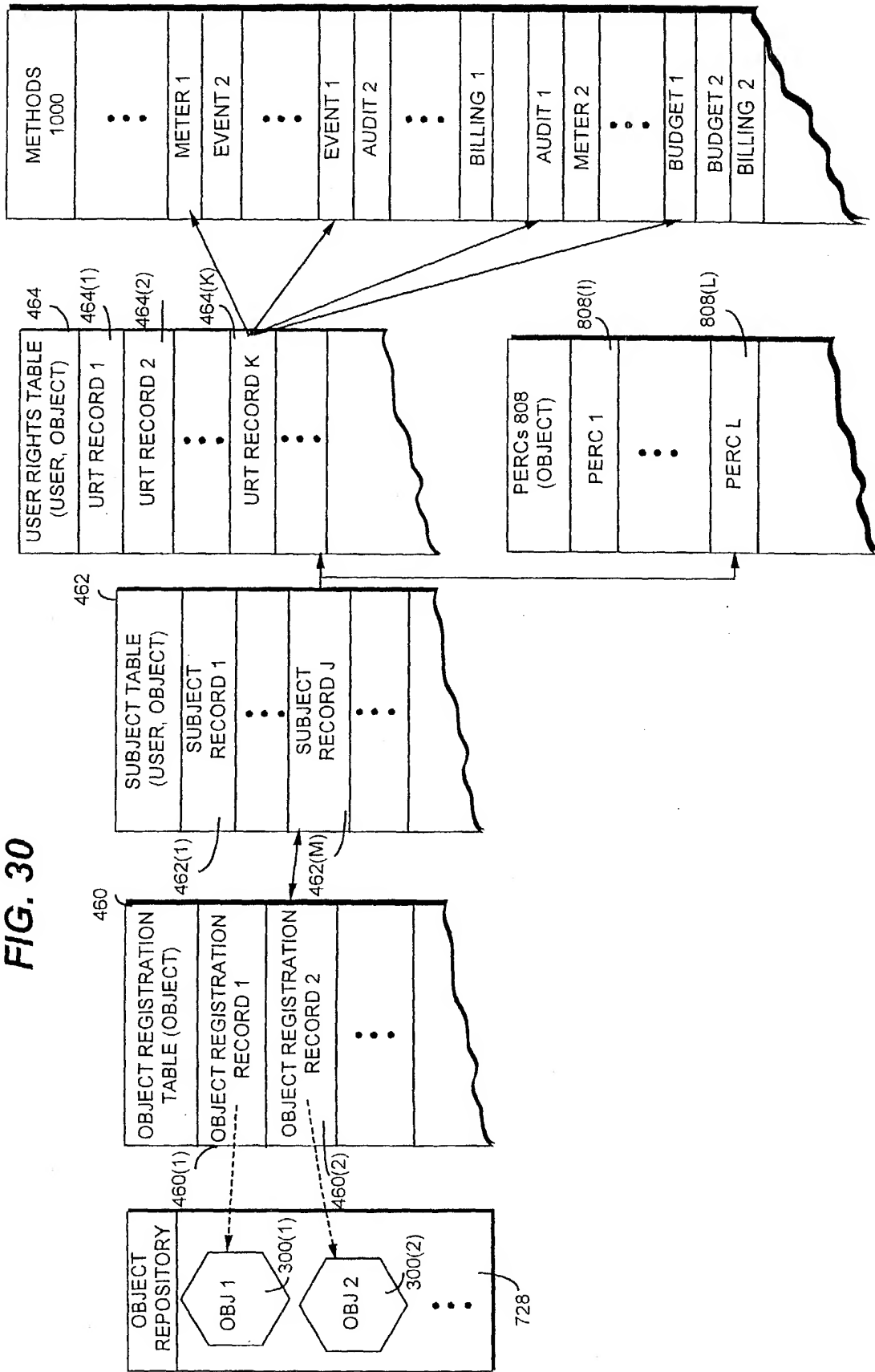
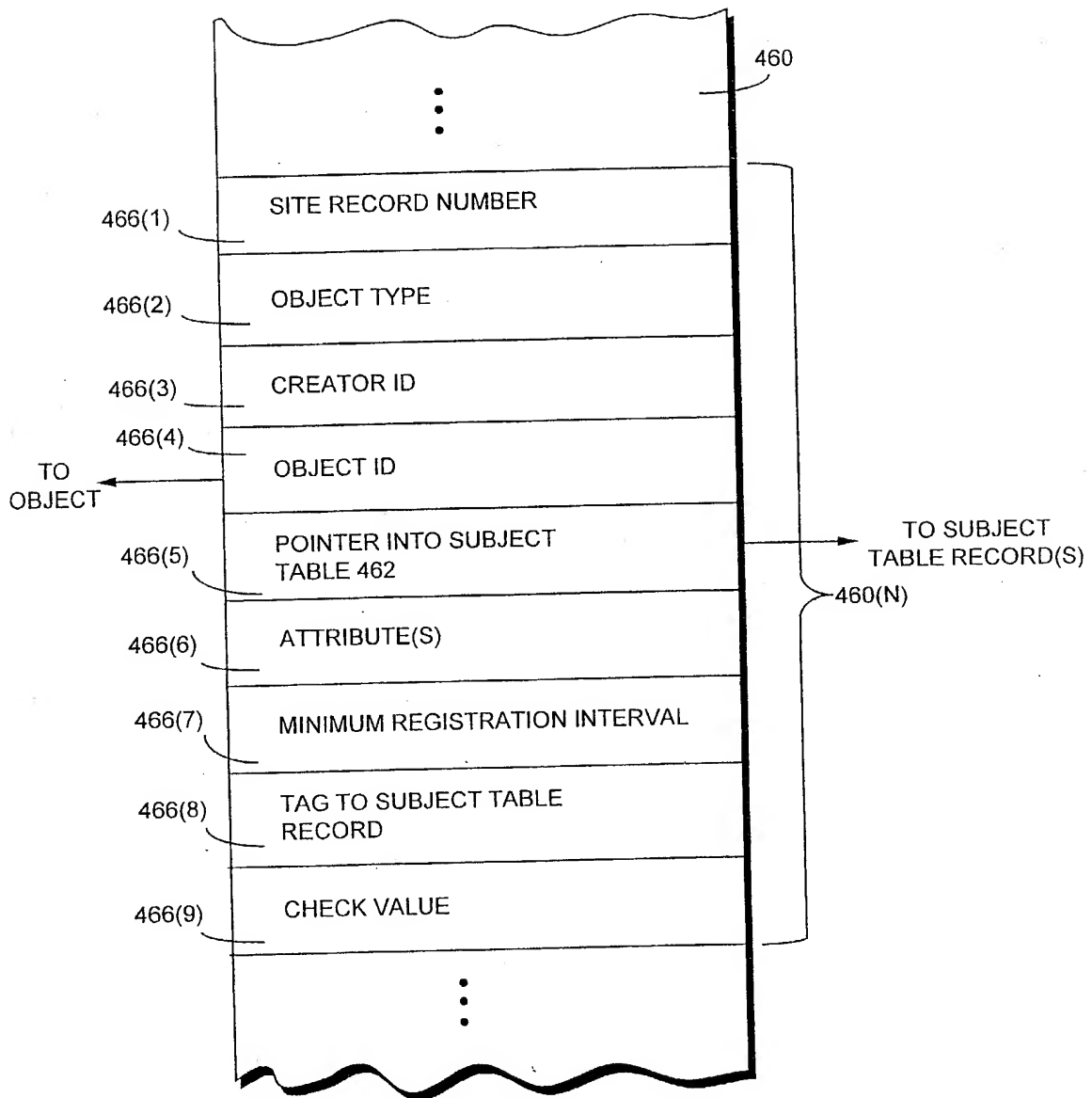


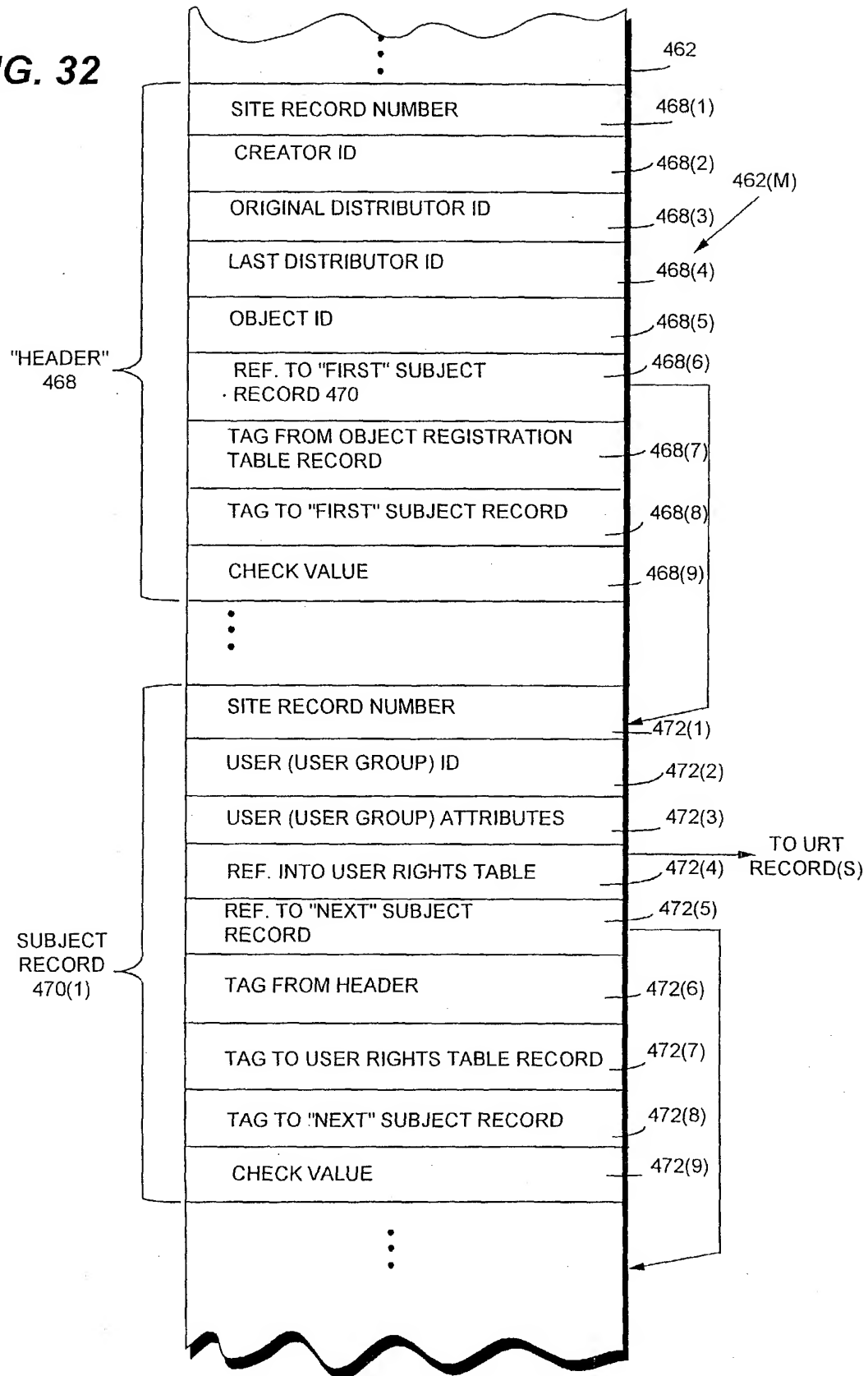
FIG. 30





**FIG. 31**

**FIG. 32**



**FIG. 33**

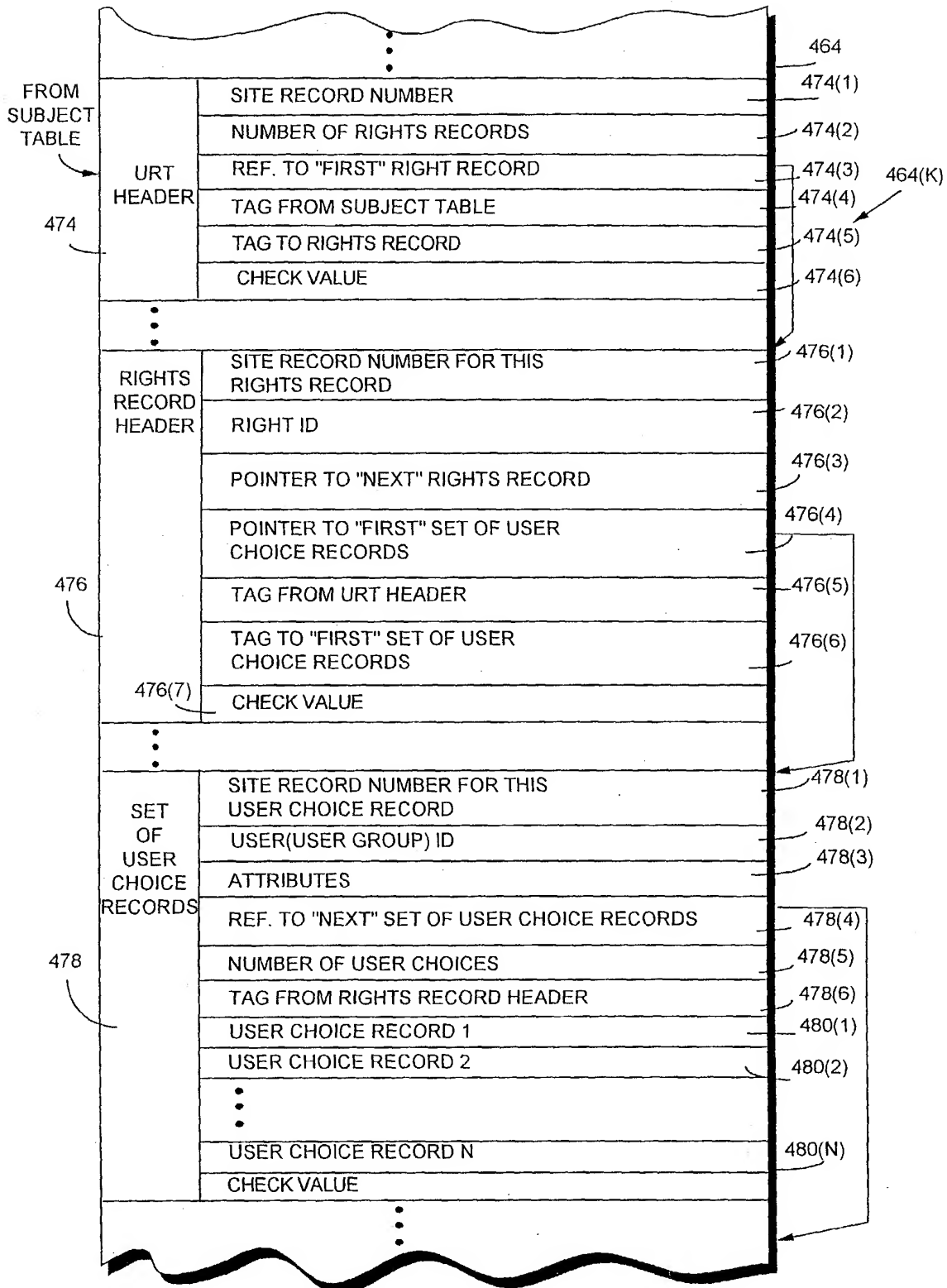
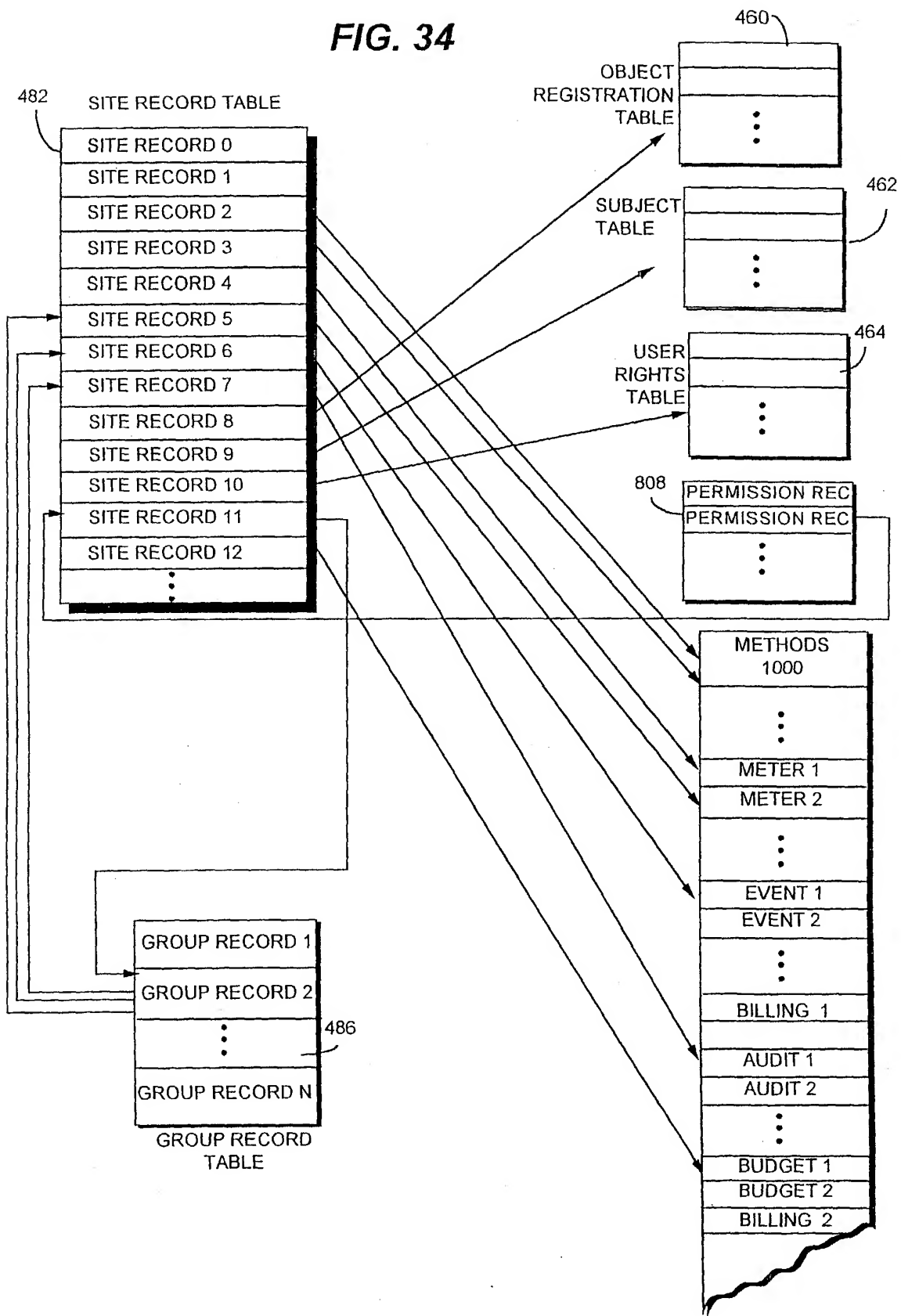
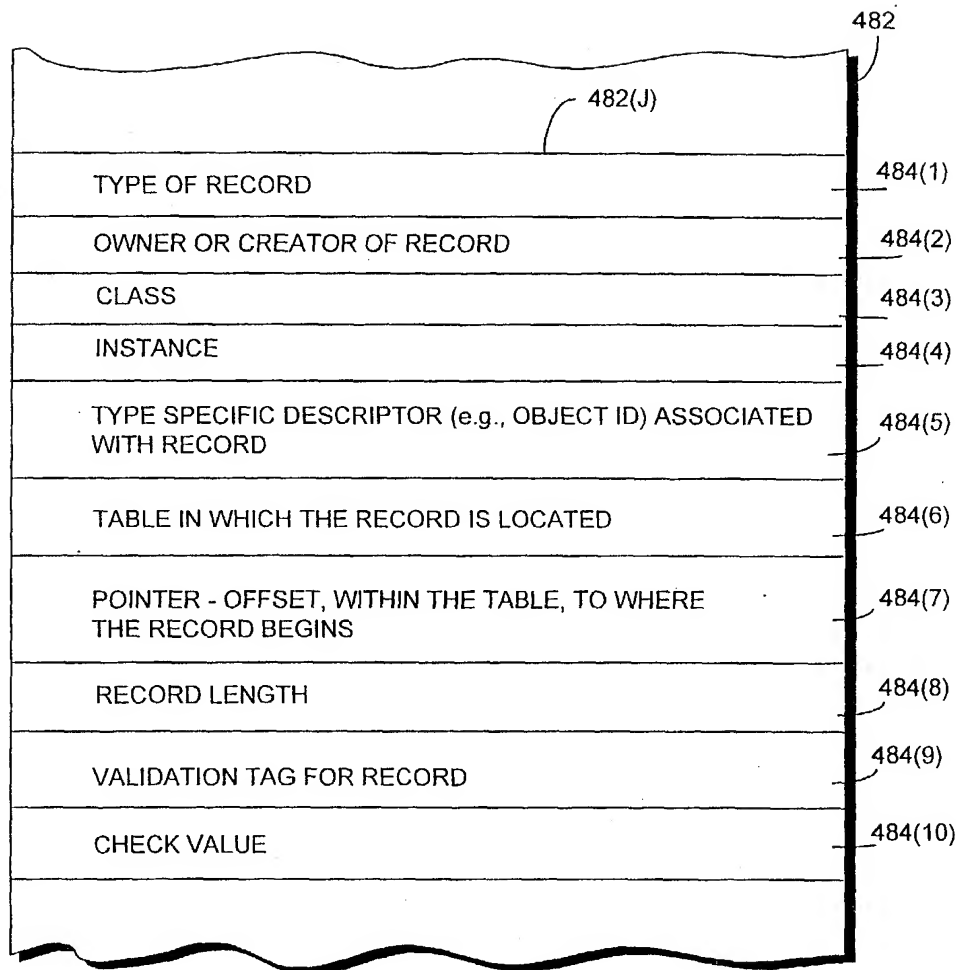


FIG. 34



**FIG. 34A**



**FIG. 34B**

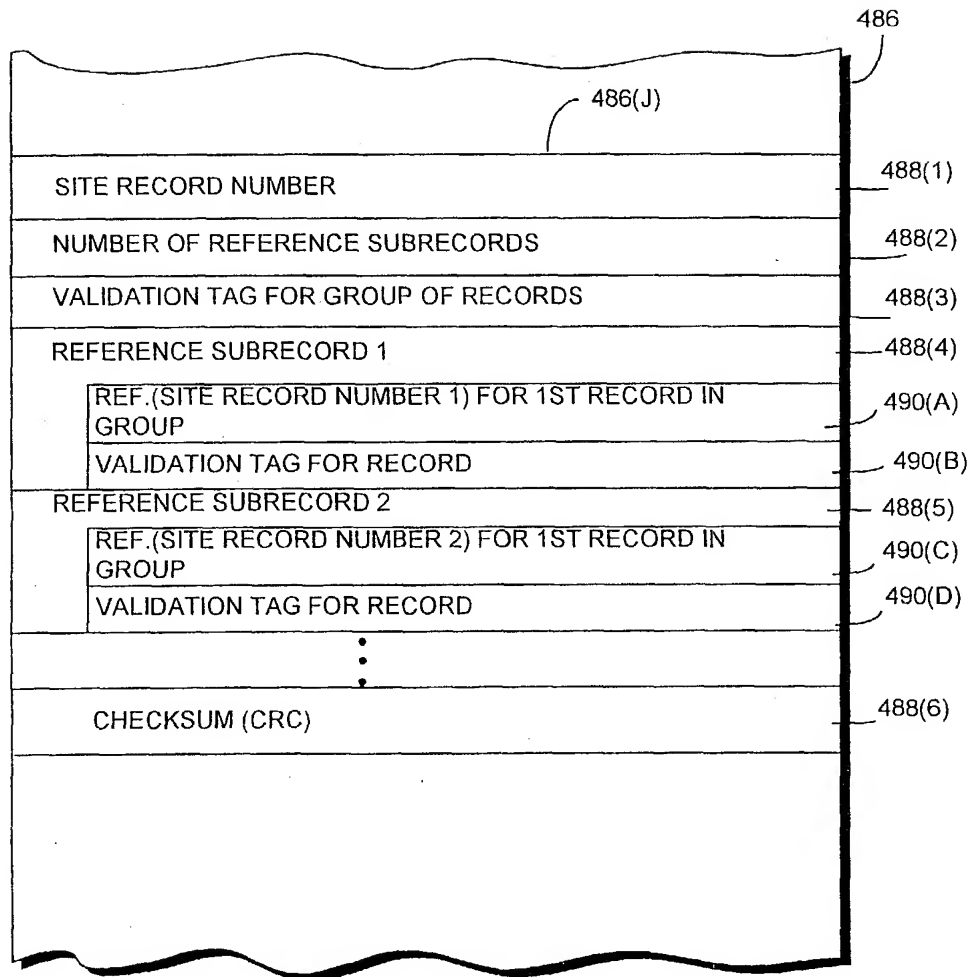


FIG. 35

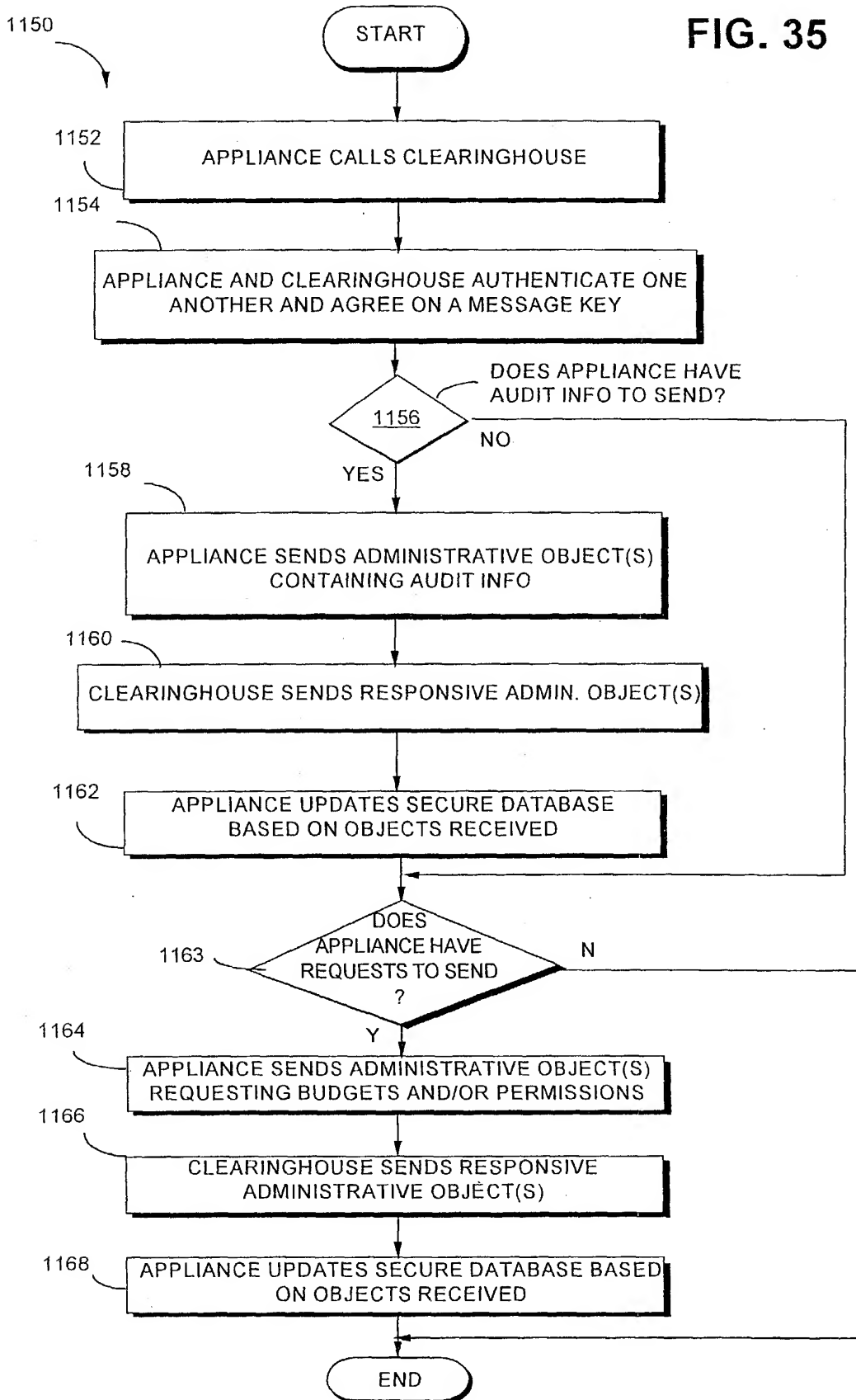


FIG. 36

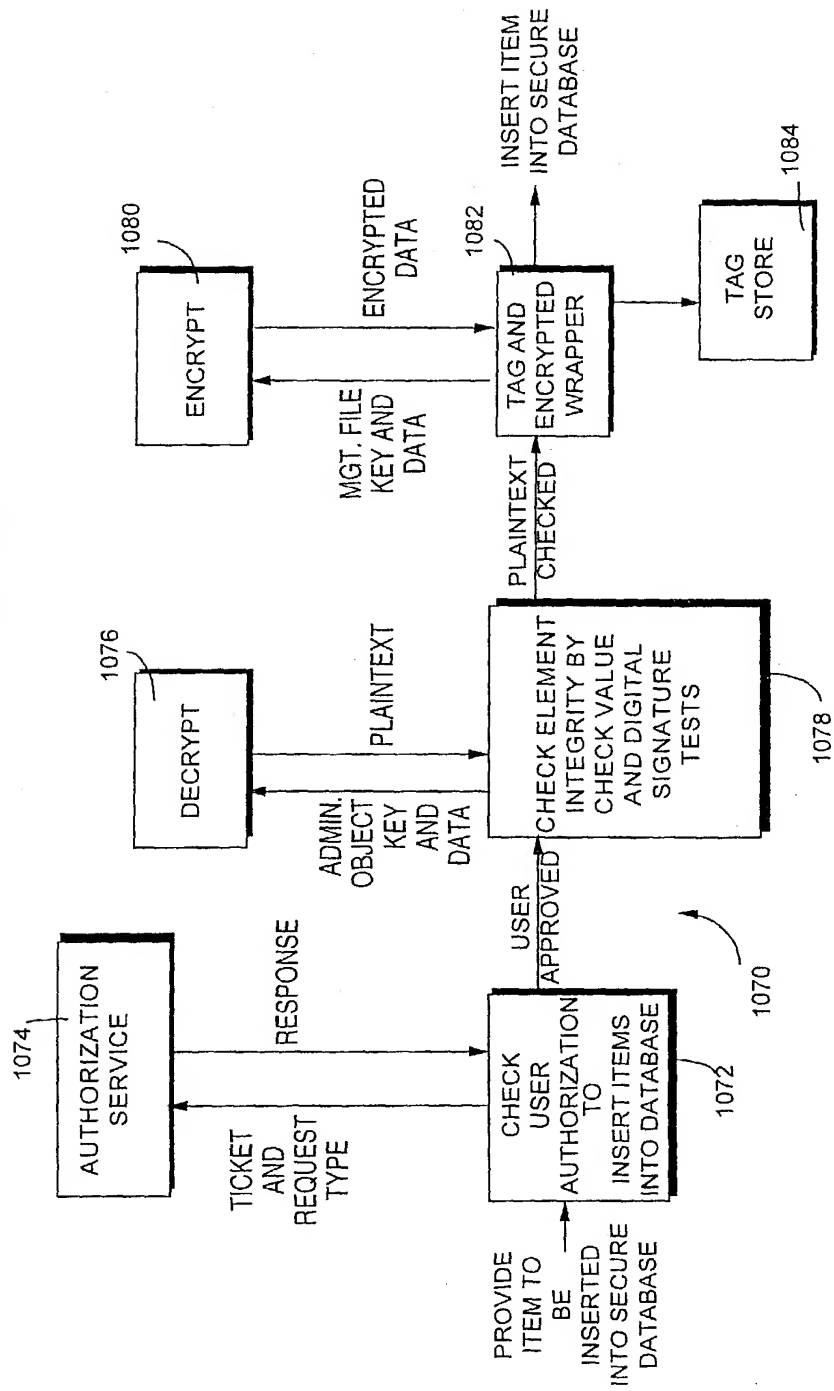
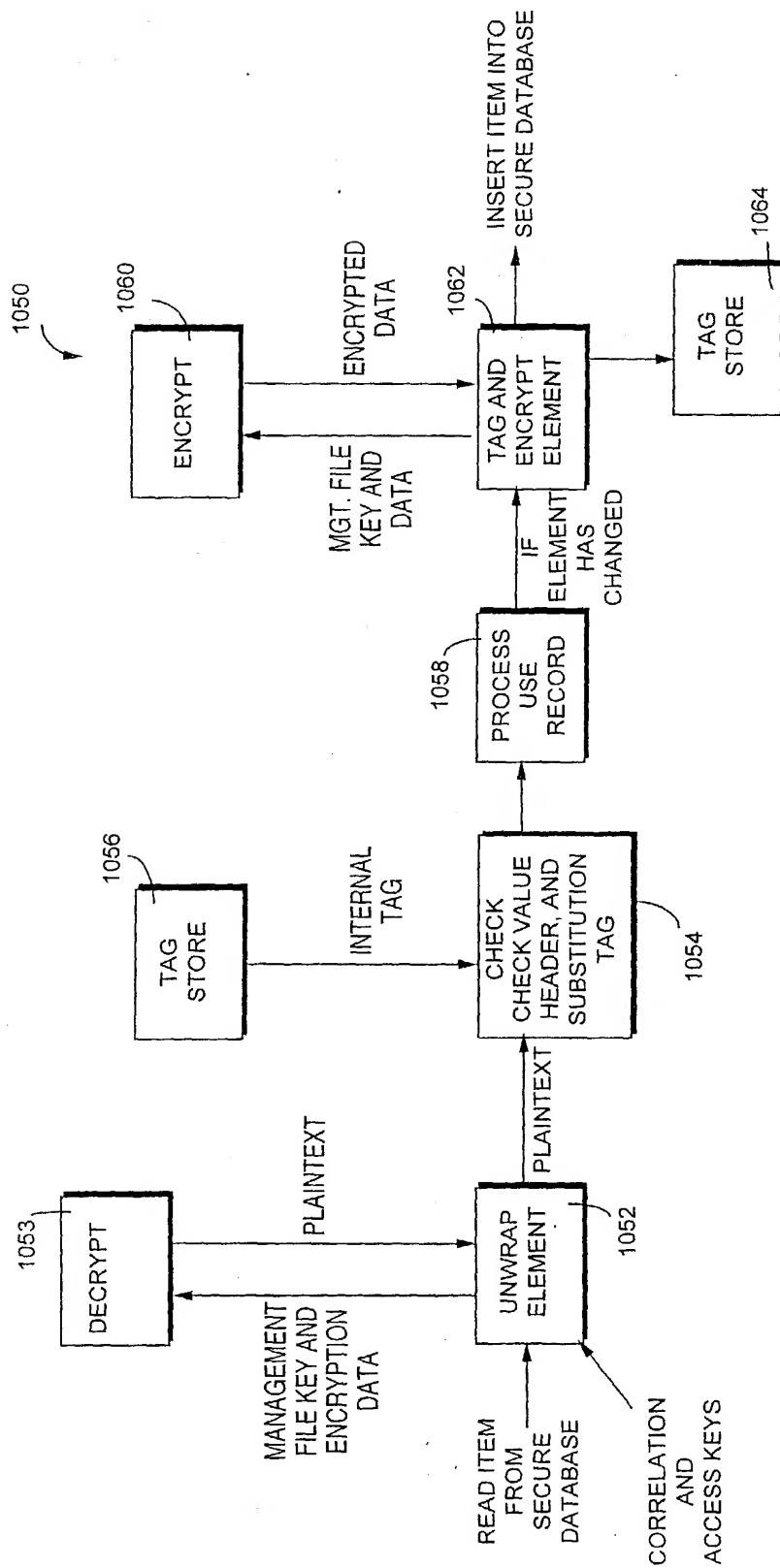


FIG. 37



**FIG. 38**

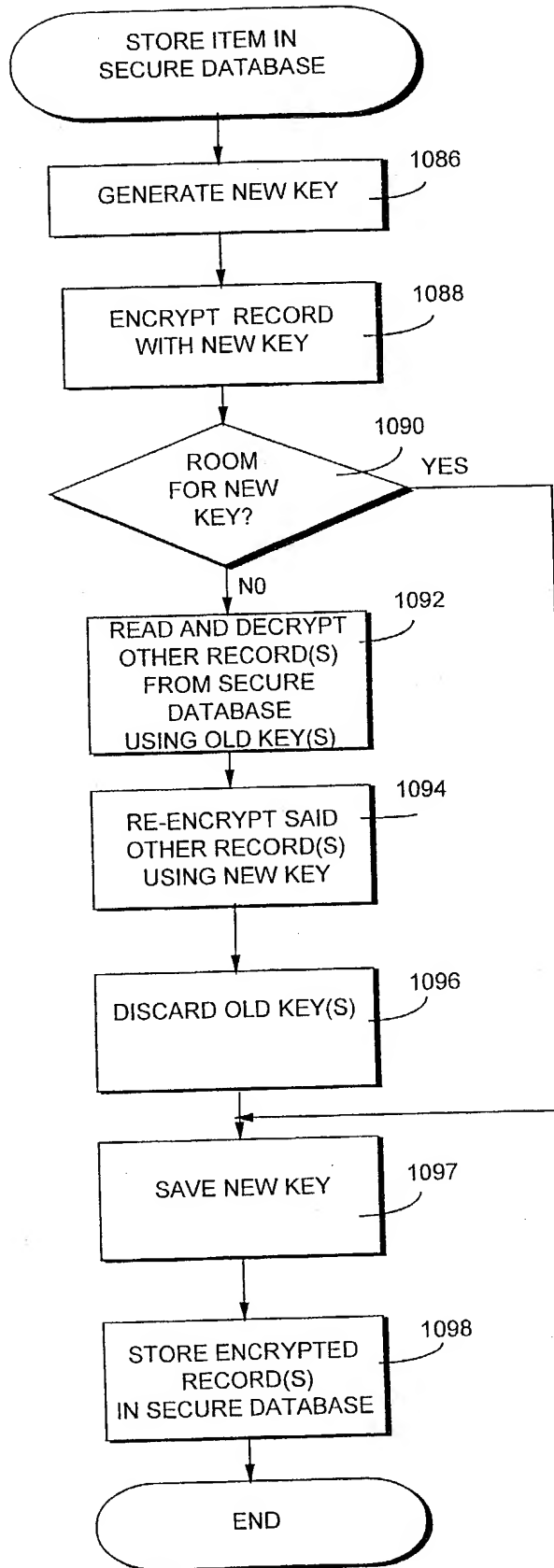


FIG. 39

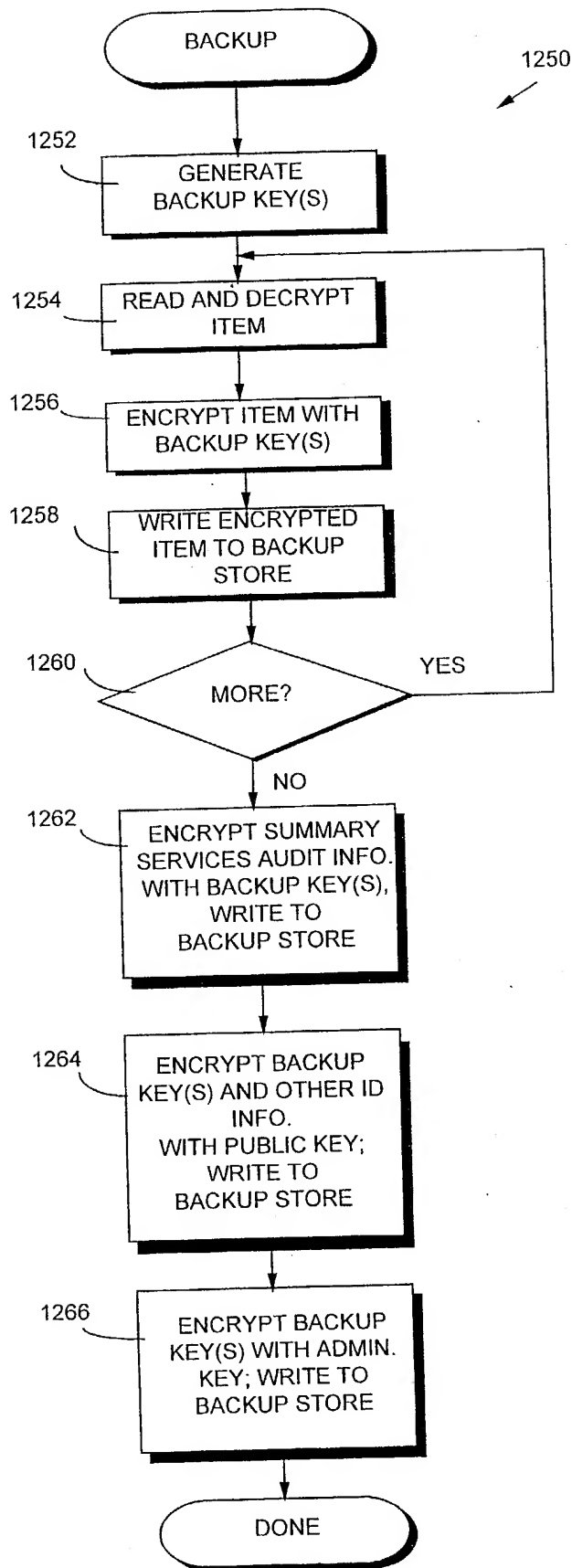
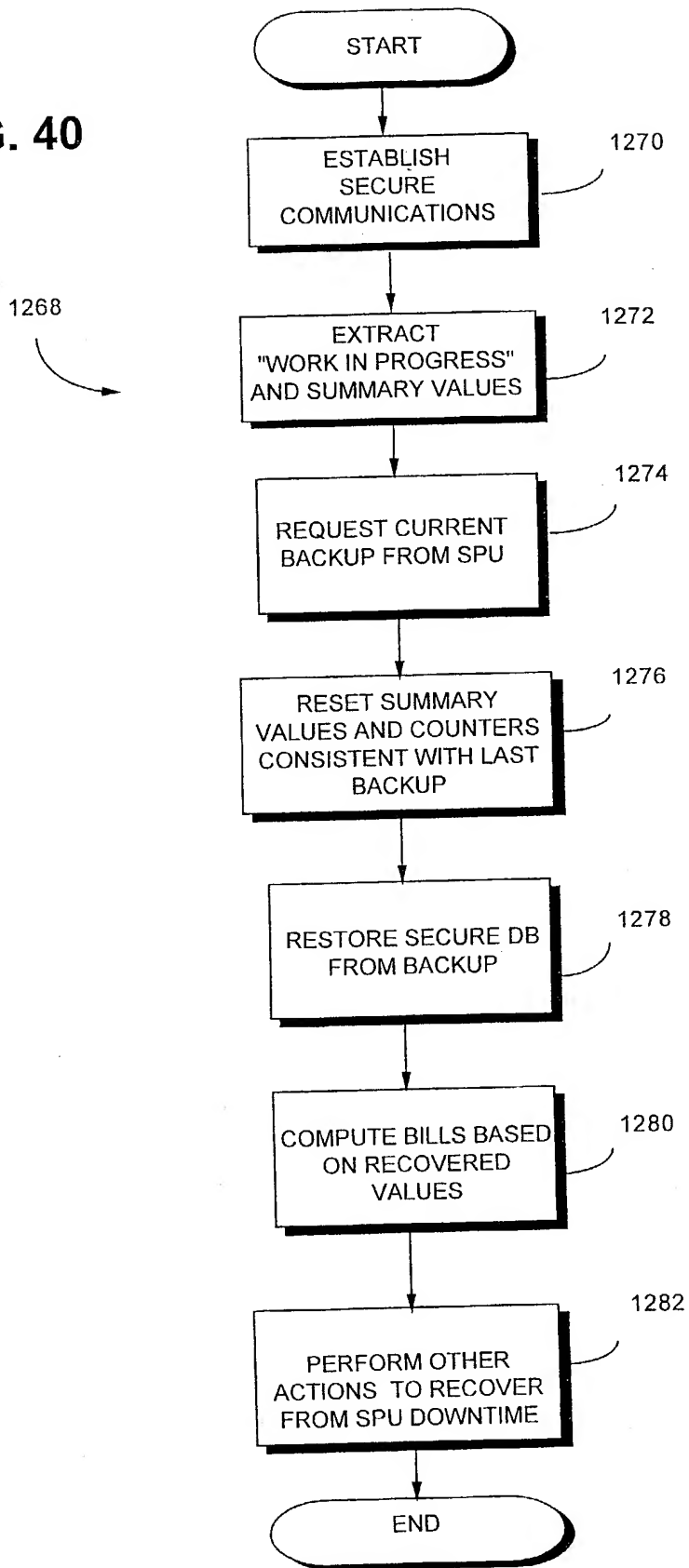
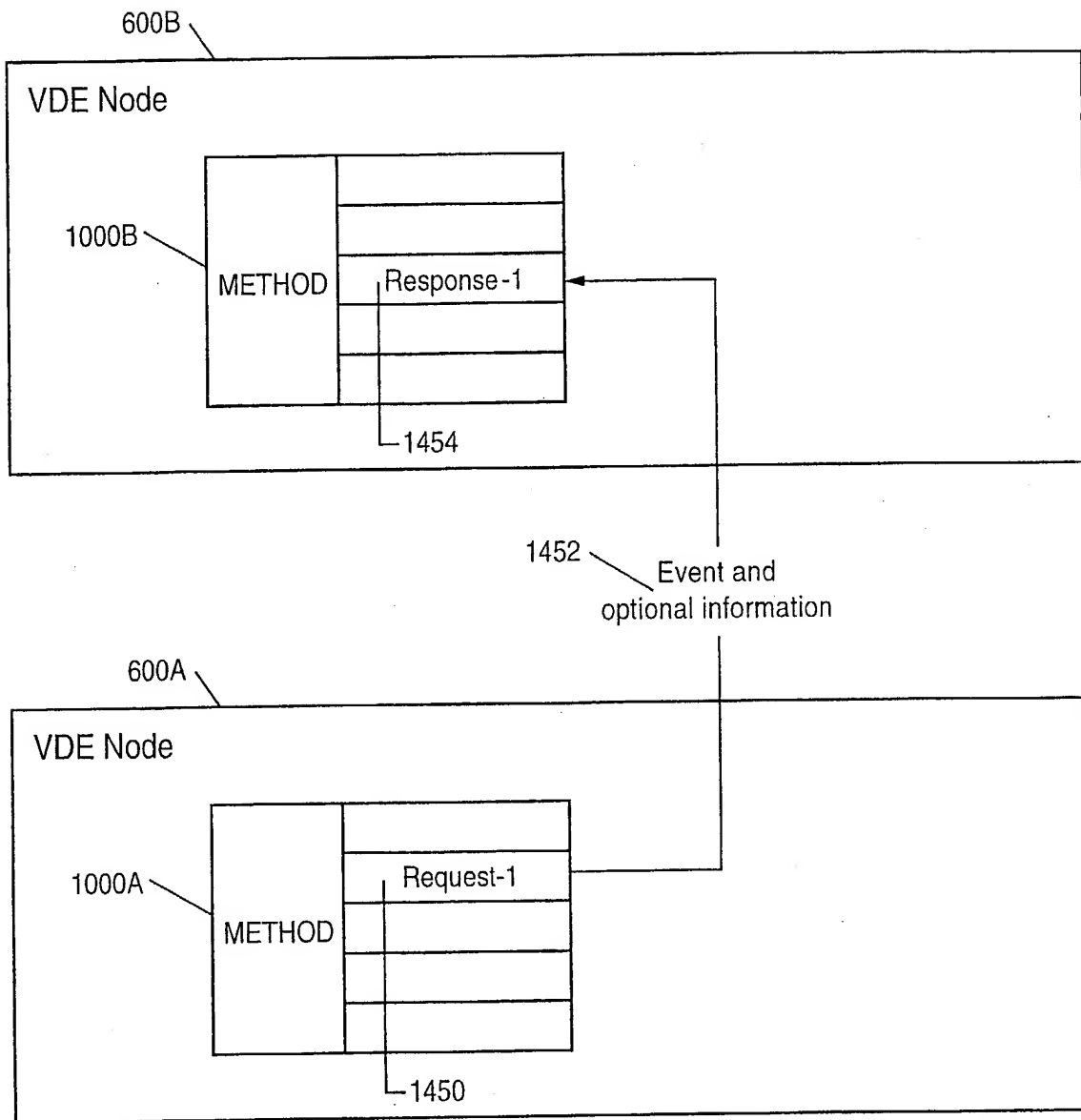
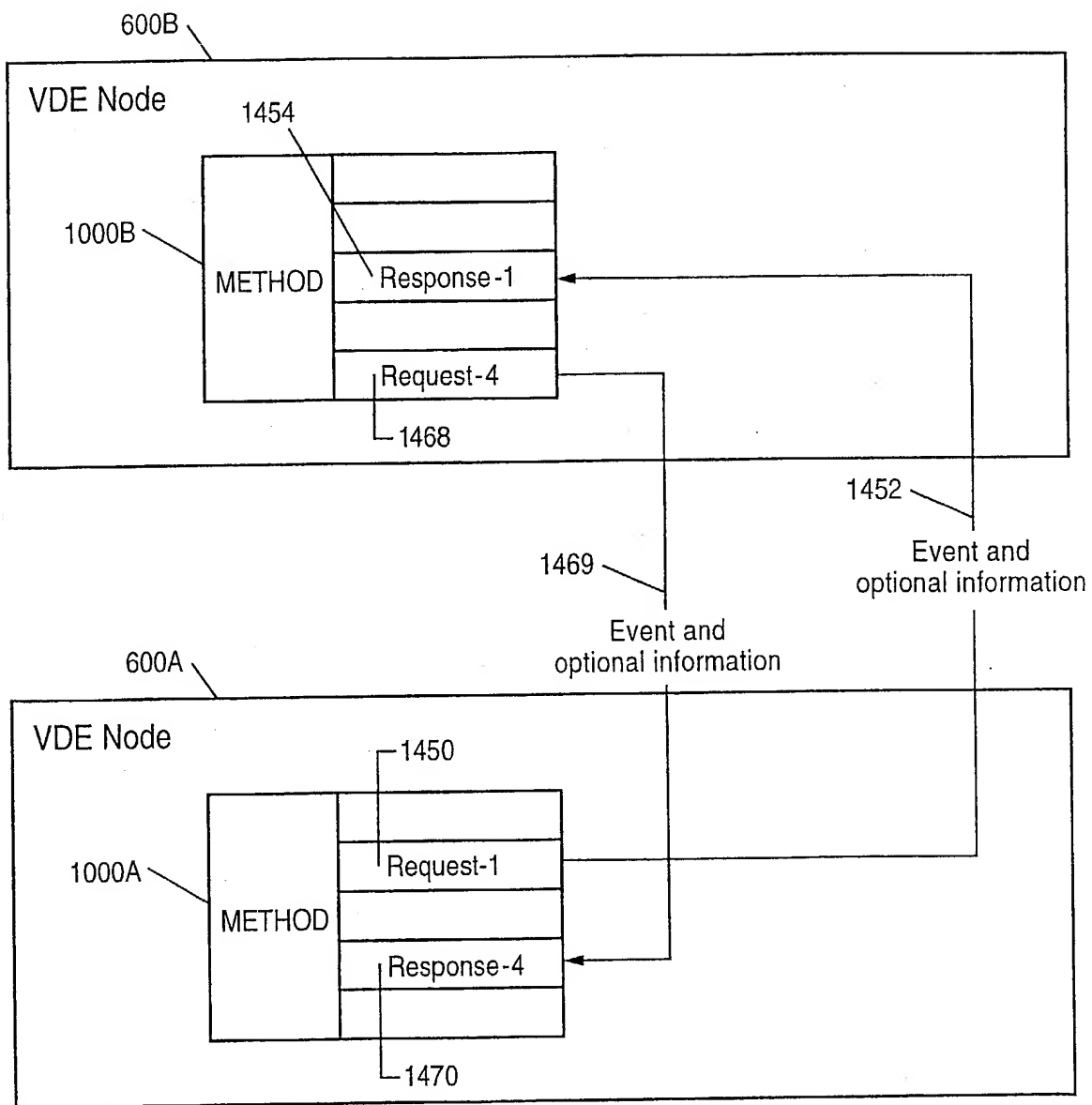


FIG. 40





**FIG. 41a**



**FIG. 41b**

**FIG. 41c**

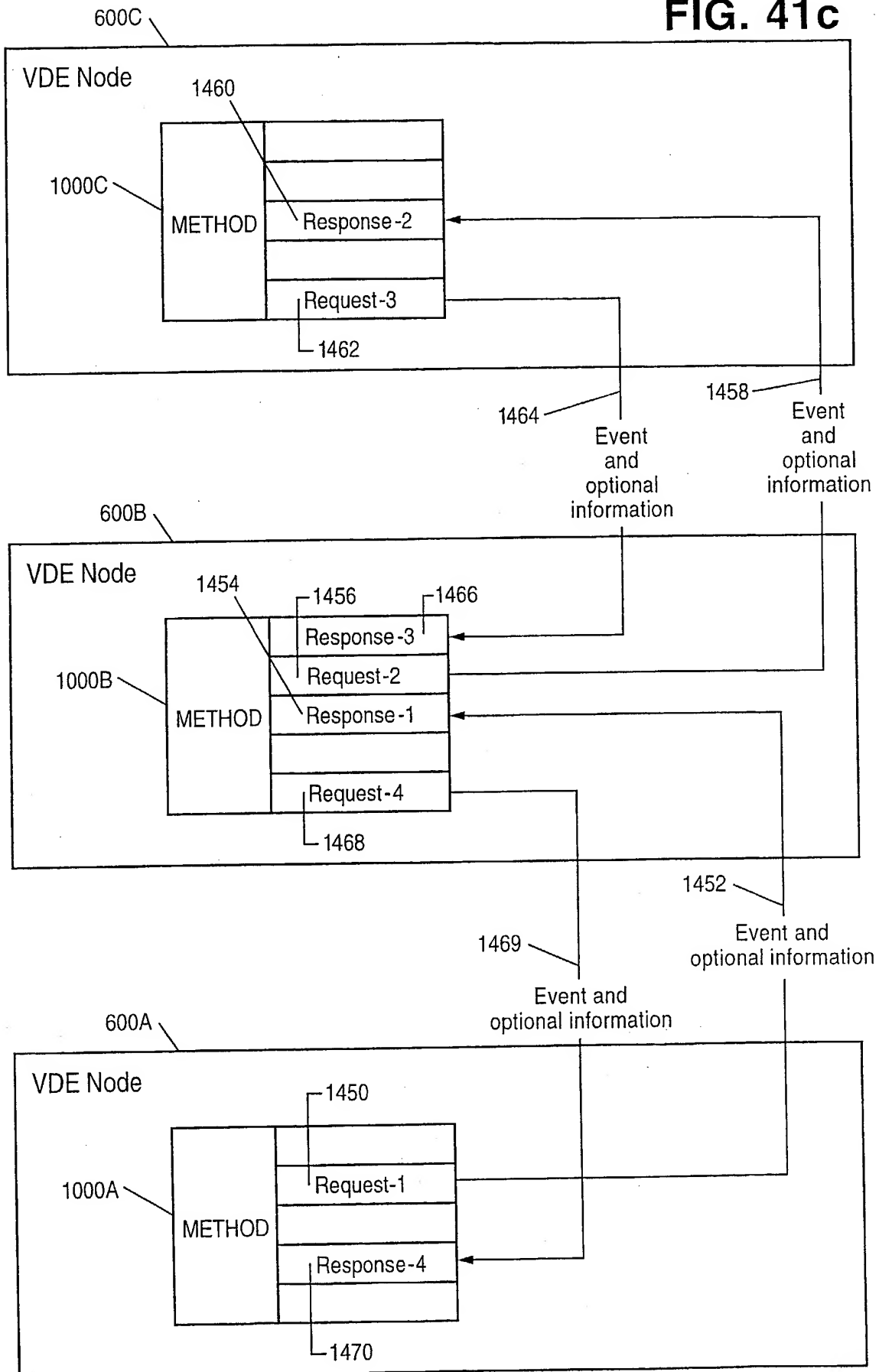
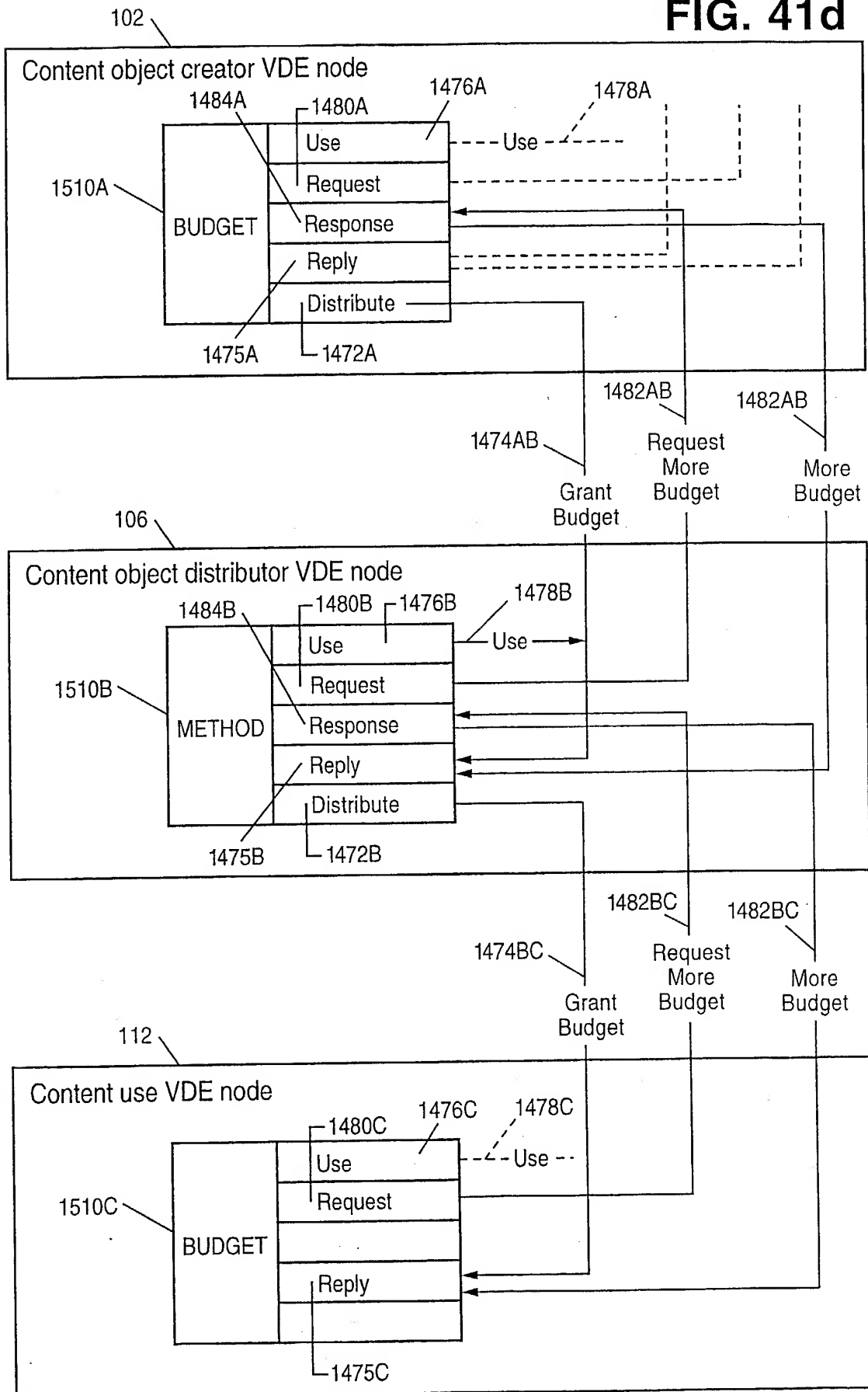
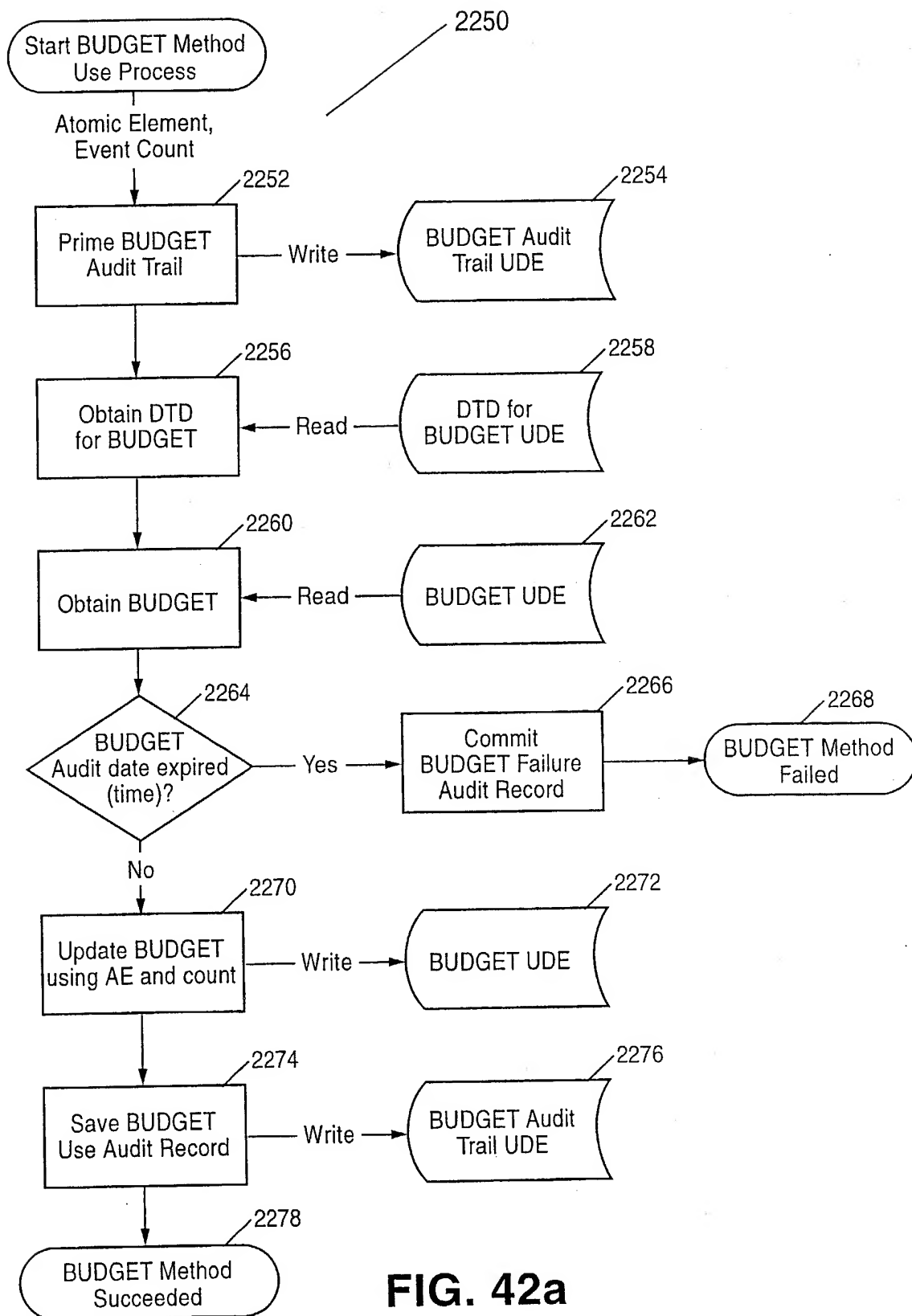
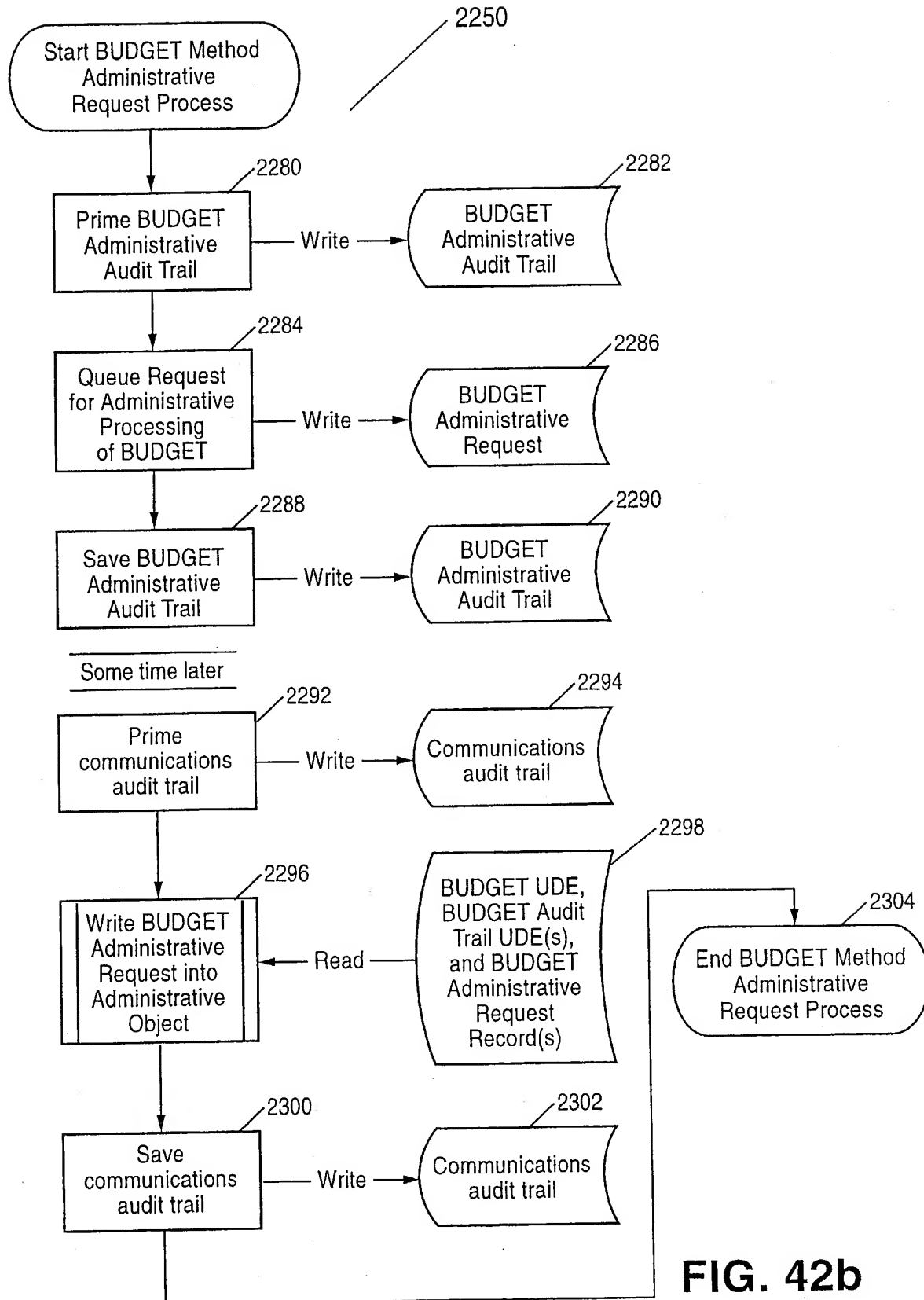


FIG. 41d

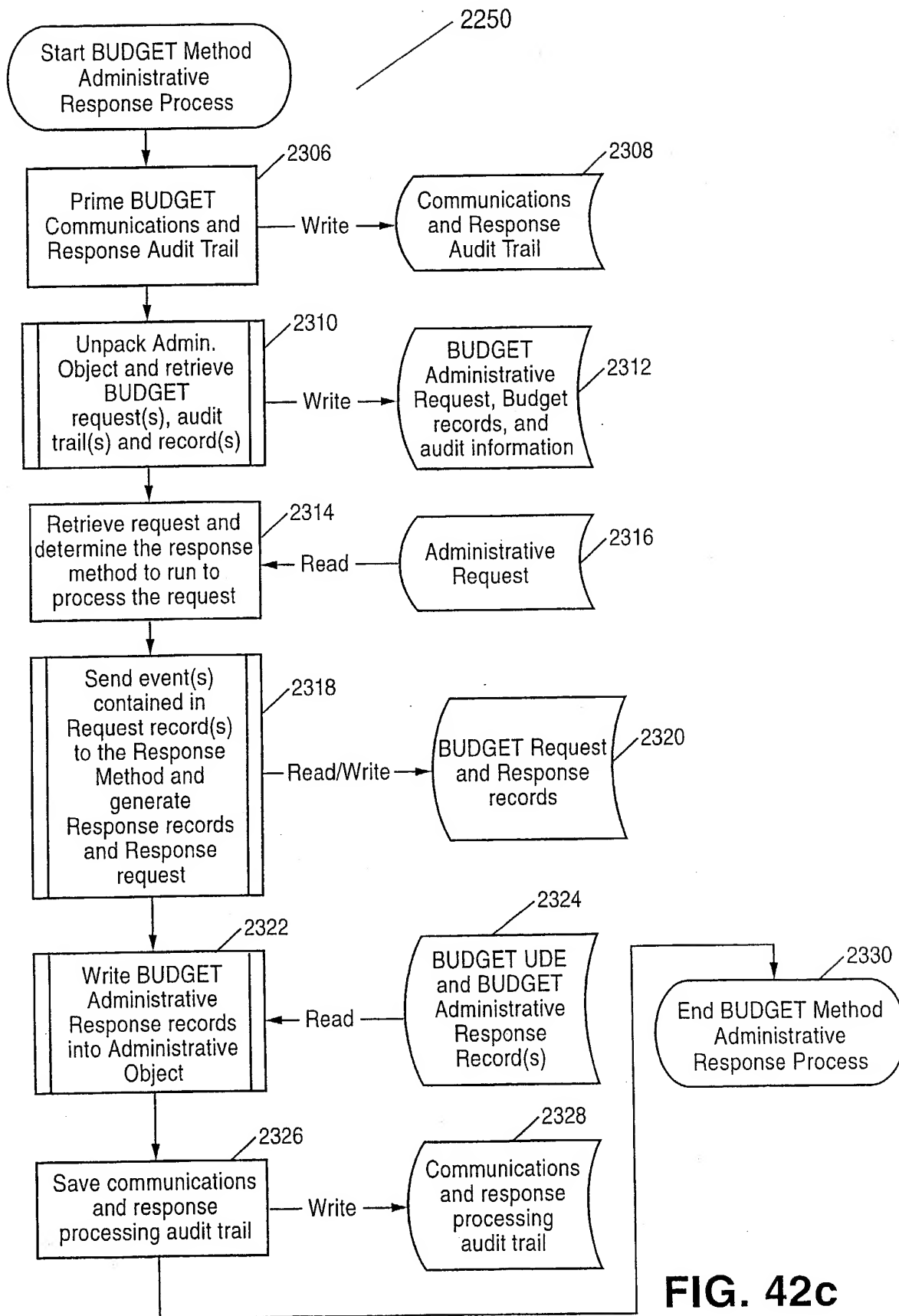


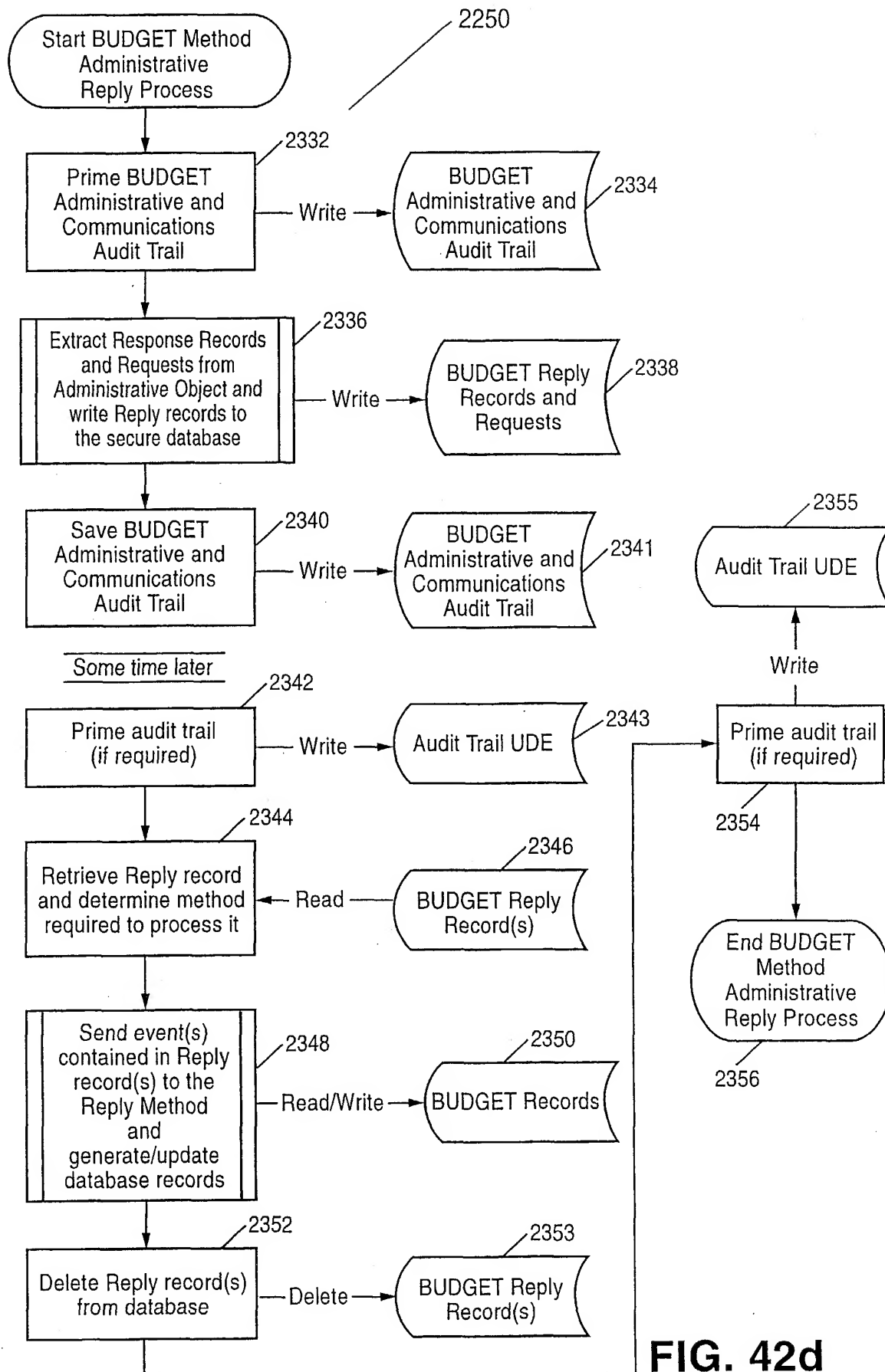


**FIG. 42a**



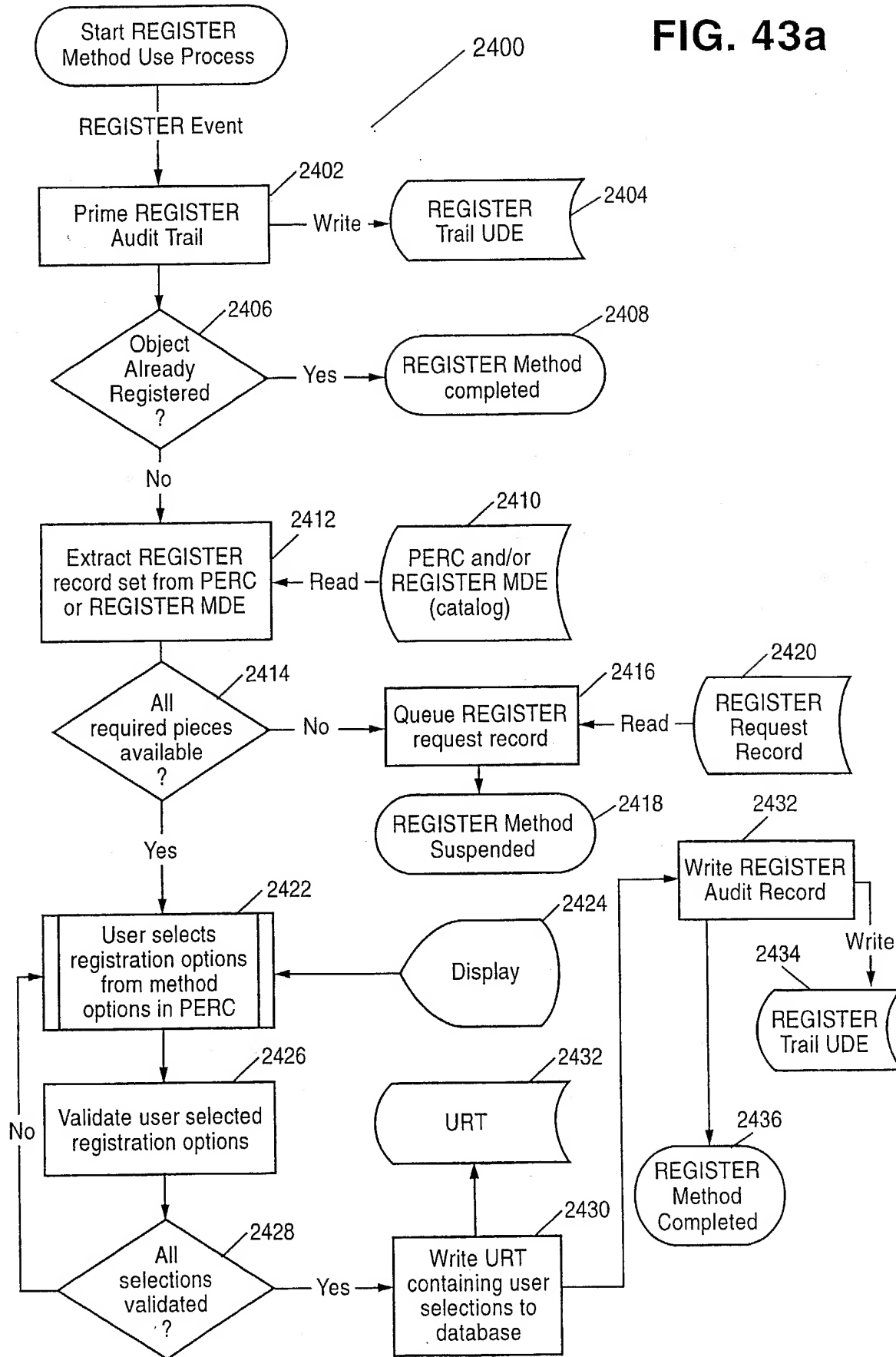
**FIG. 42b**





**FIG. 42d**

FIG. 43a



**FIG. 43b**

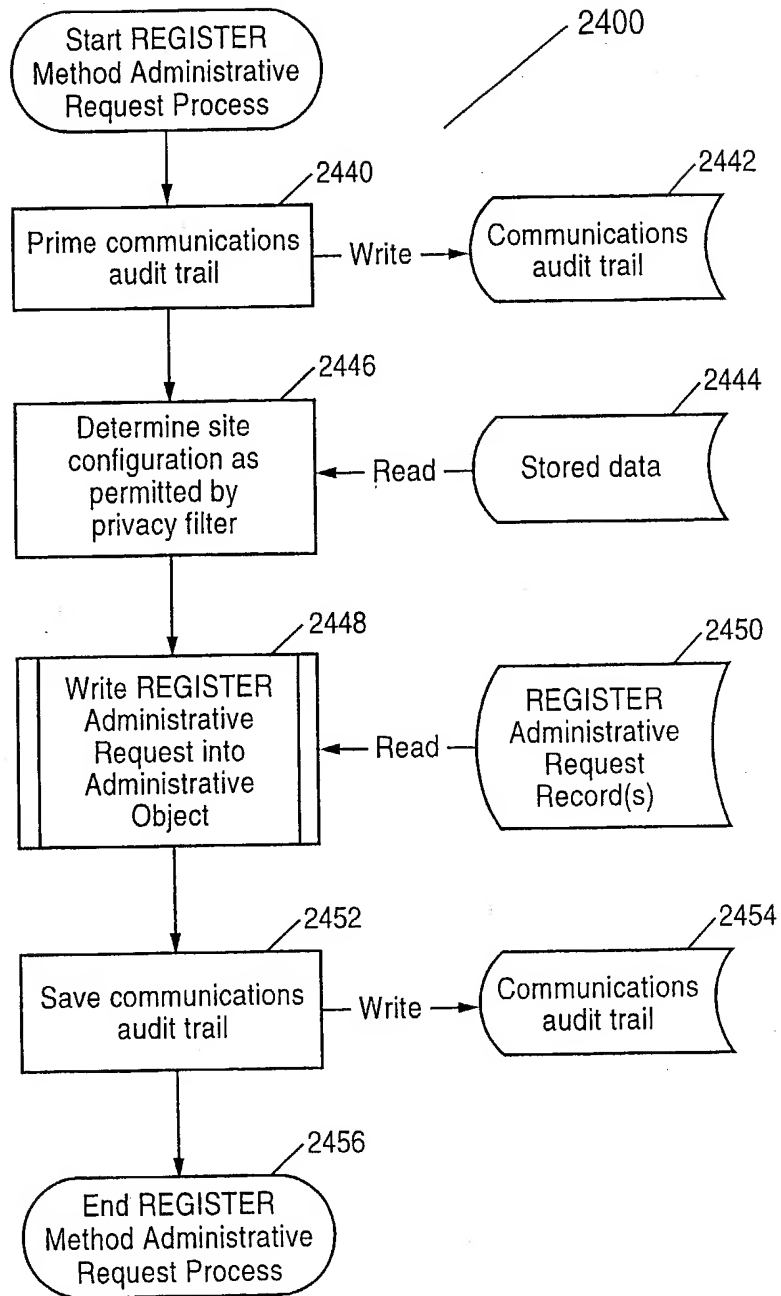


FIG. 43c

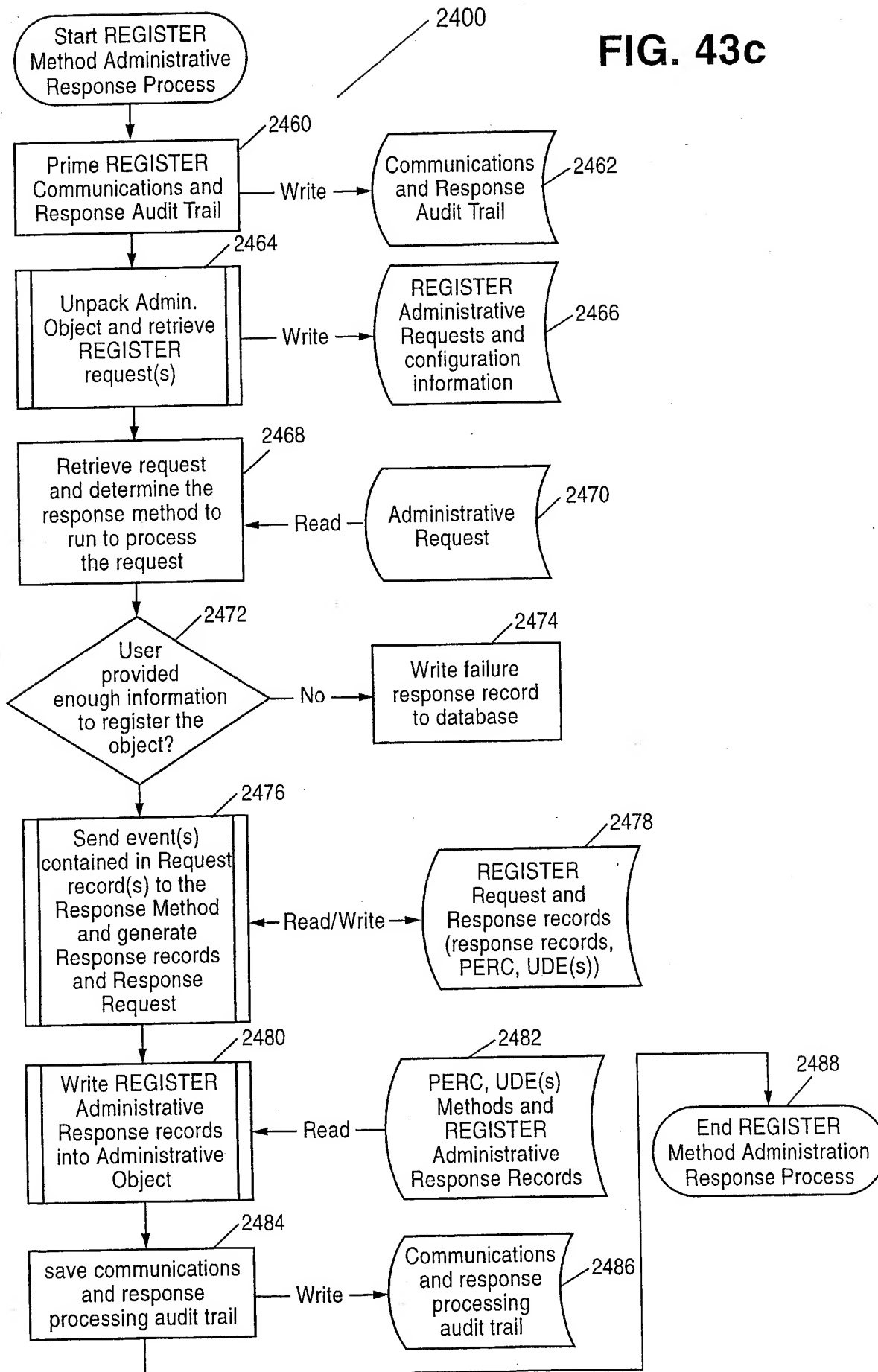
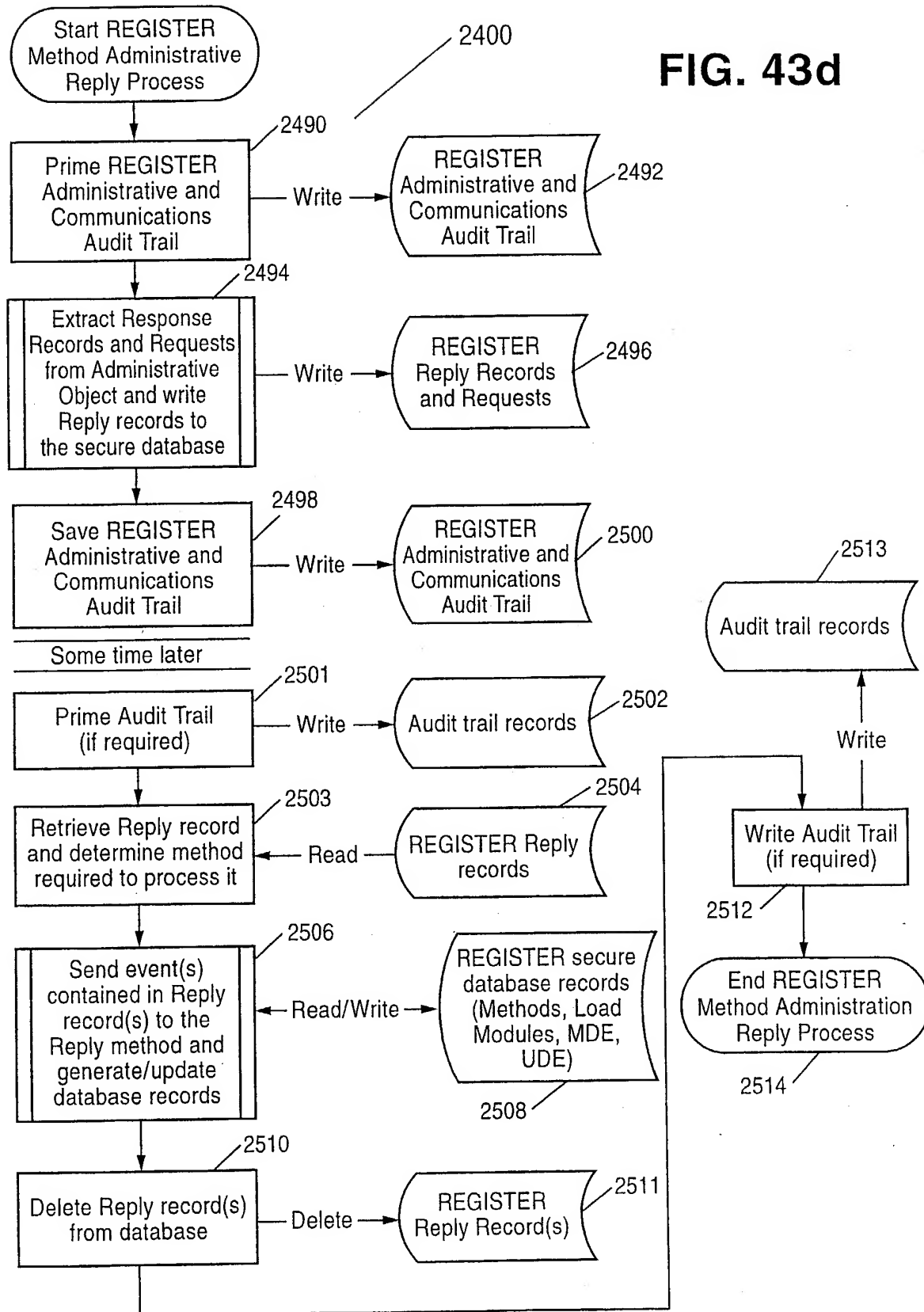
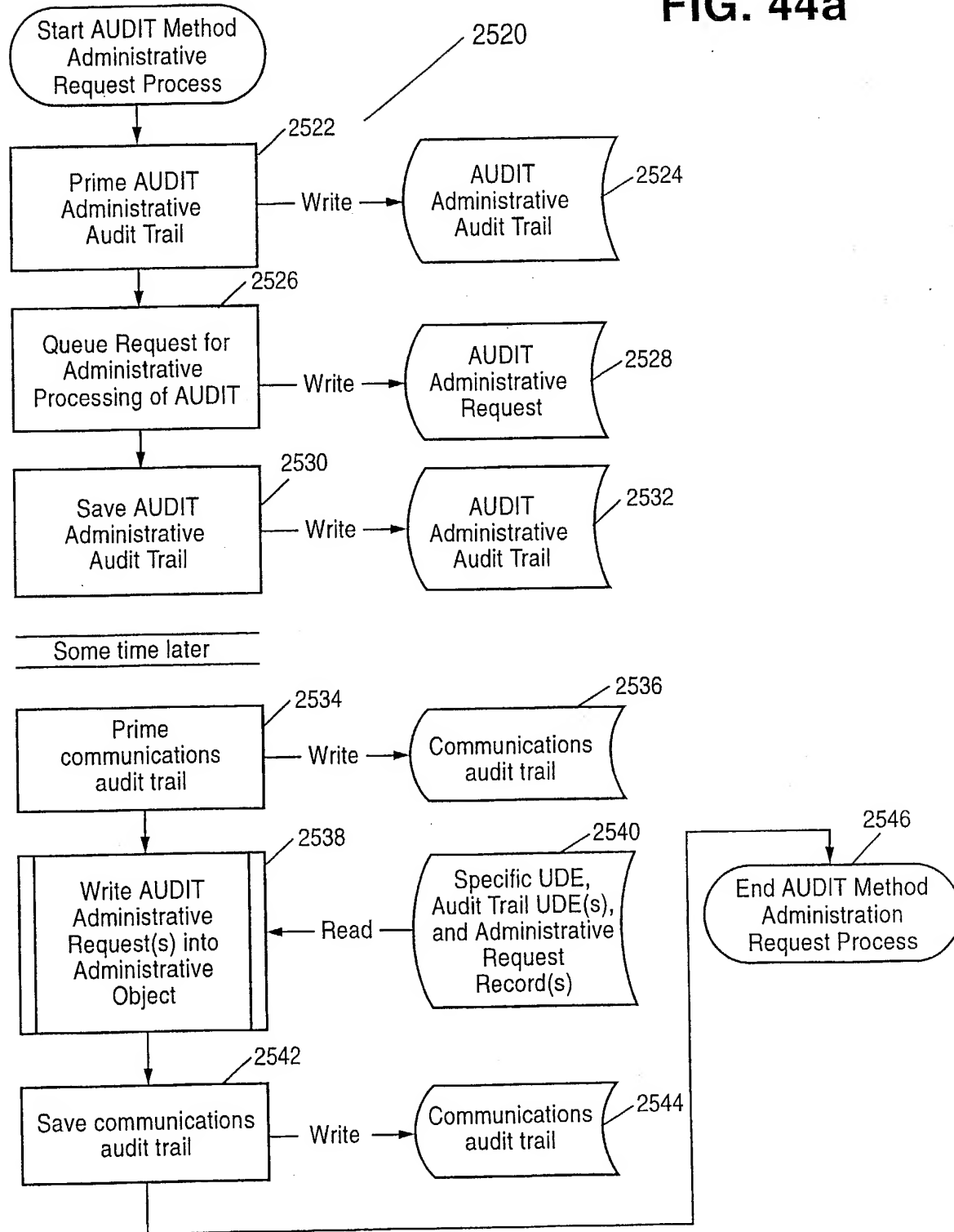


FIG. 43d



**FIG. 44a**



**FIG. 44b**

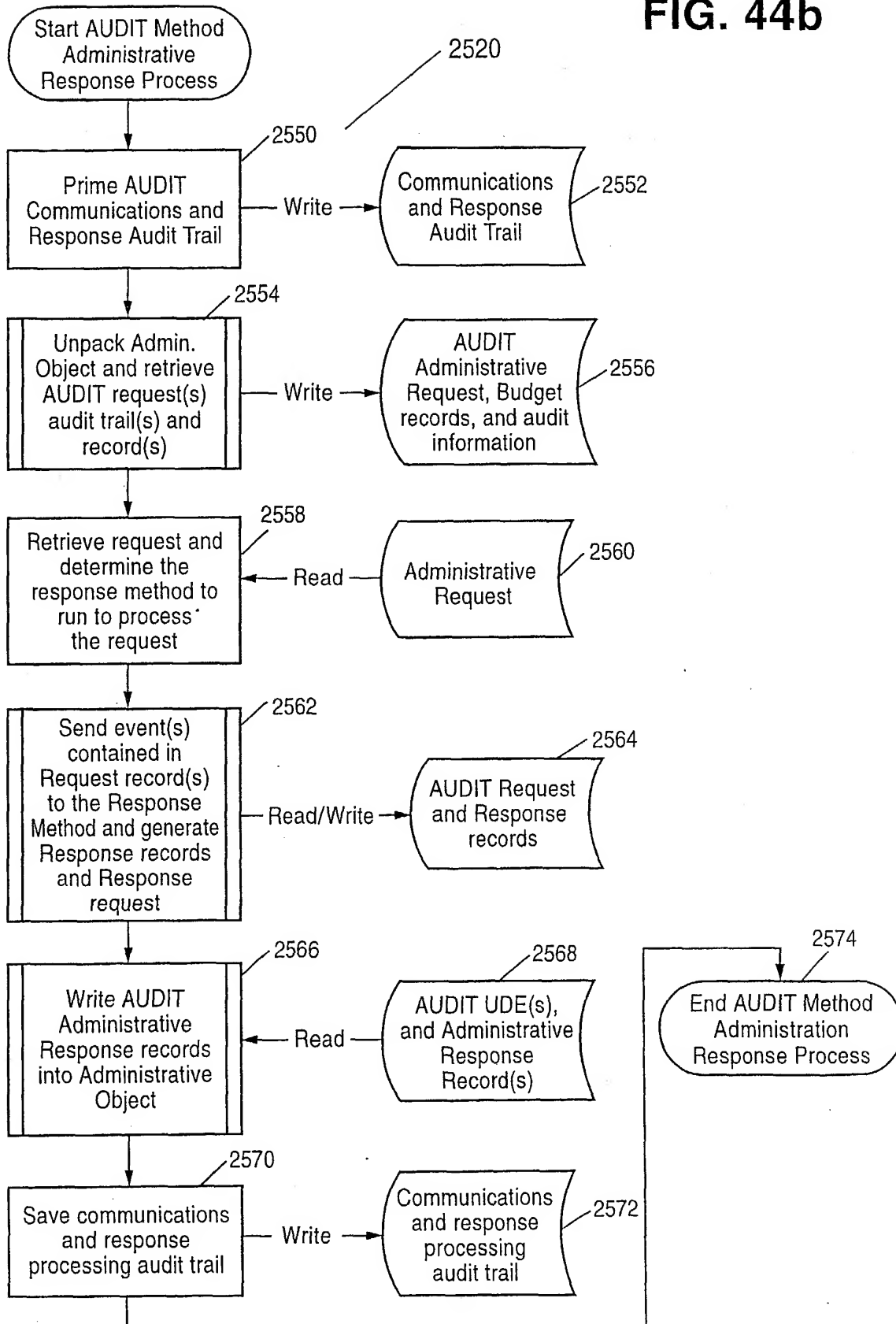


FIG. 44c

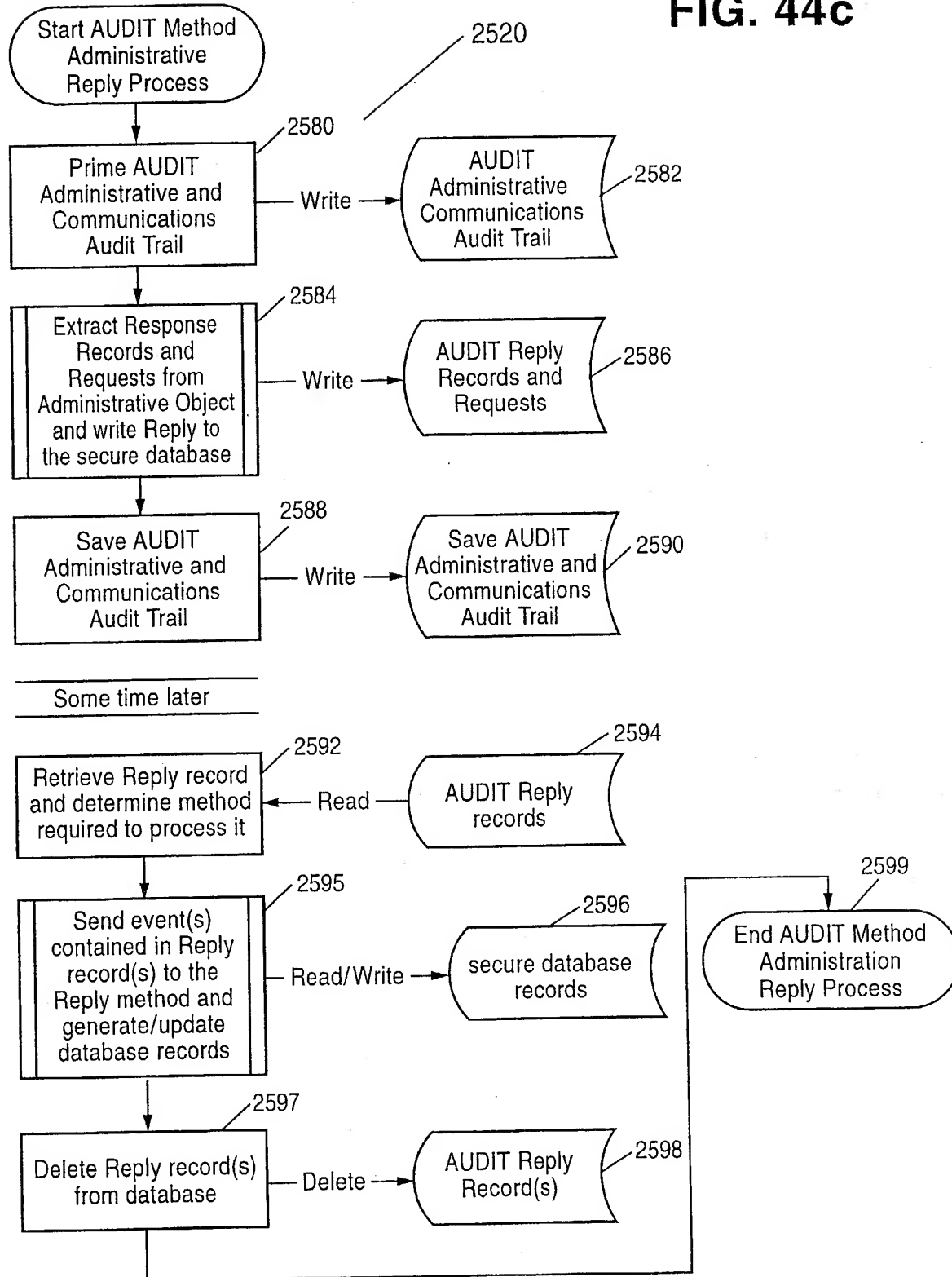


FIG. 45

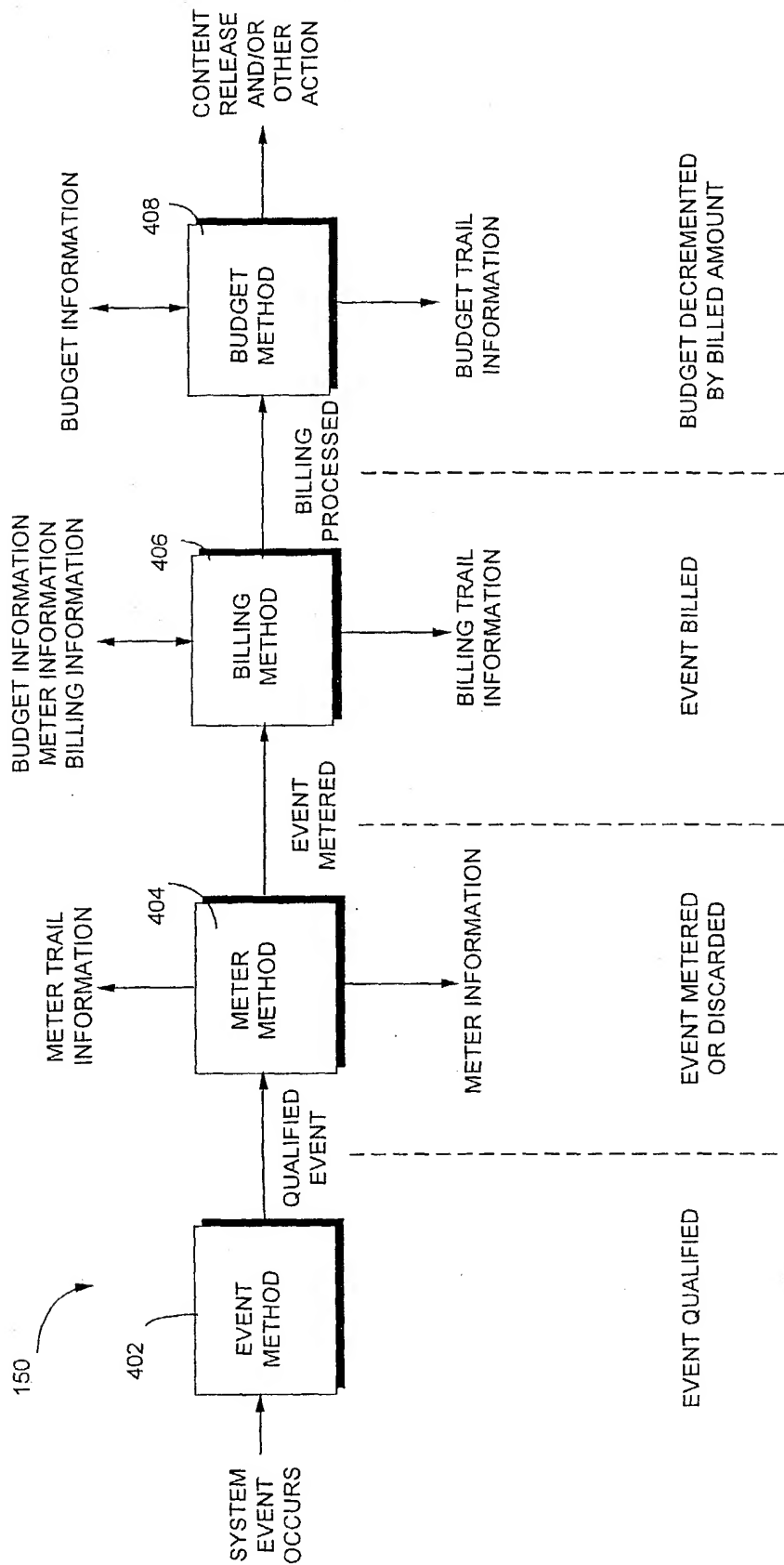


FIG. 46

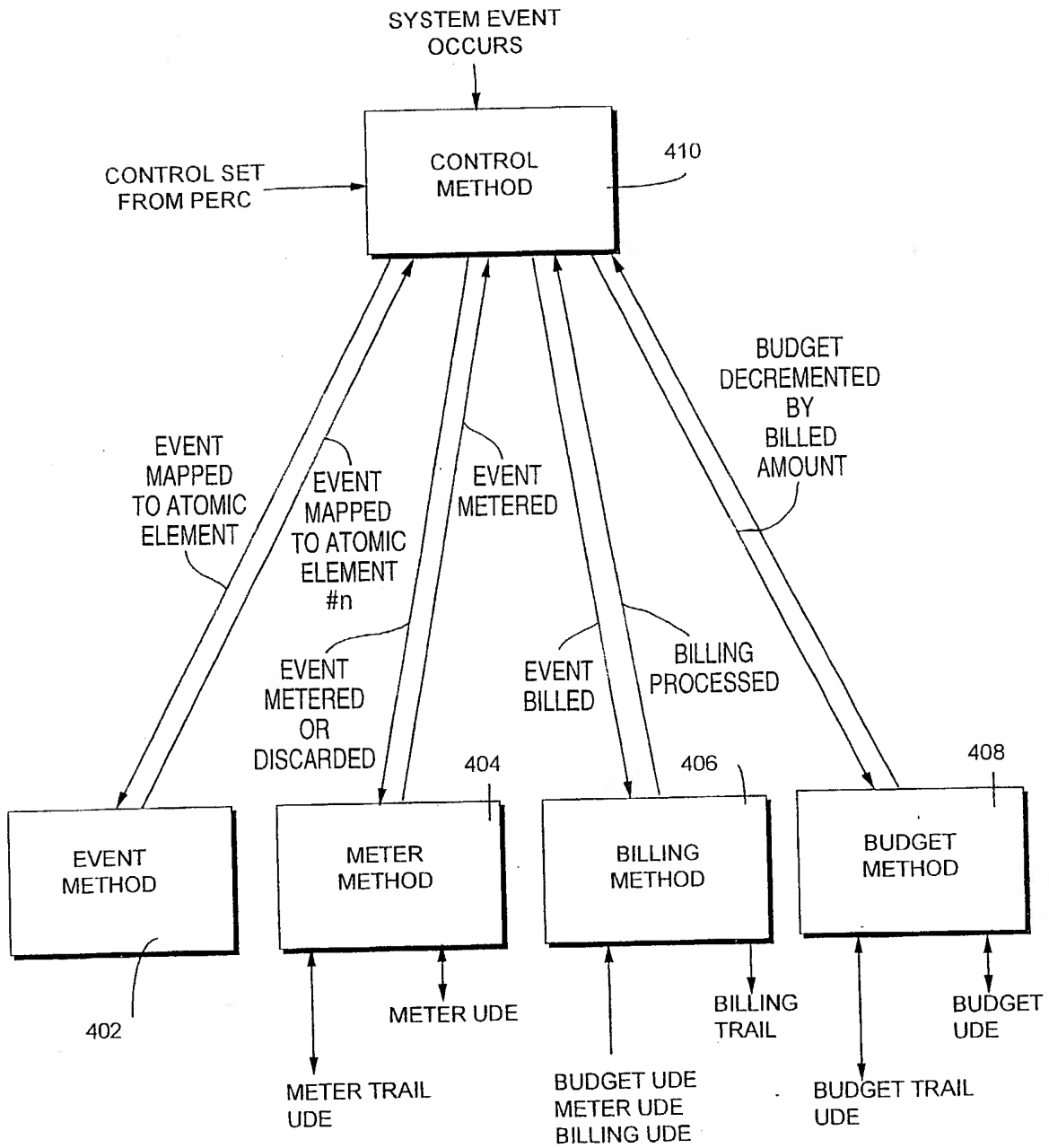
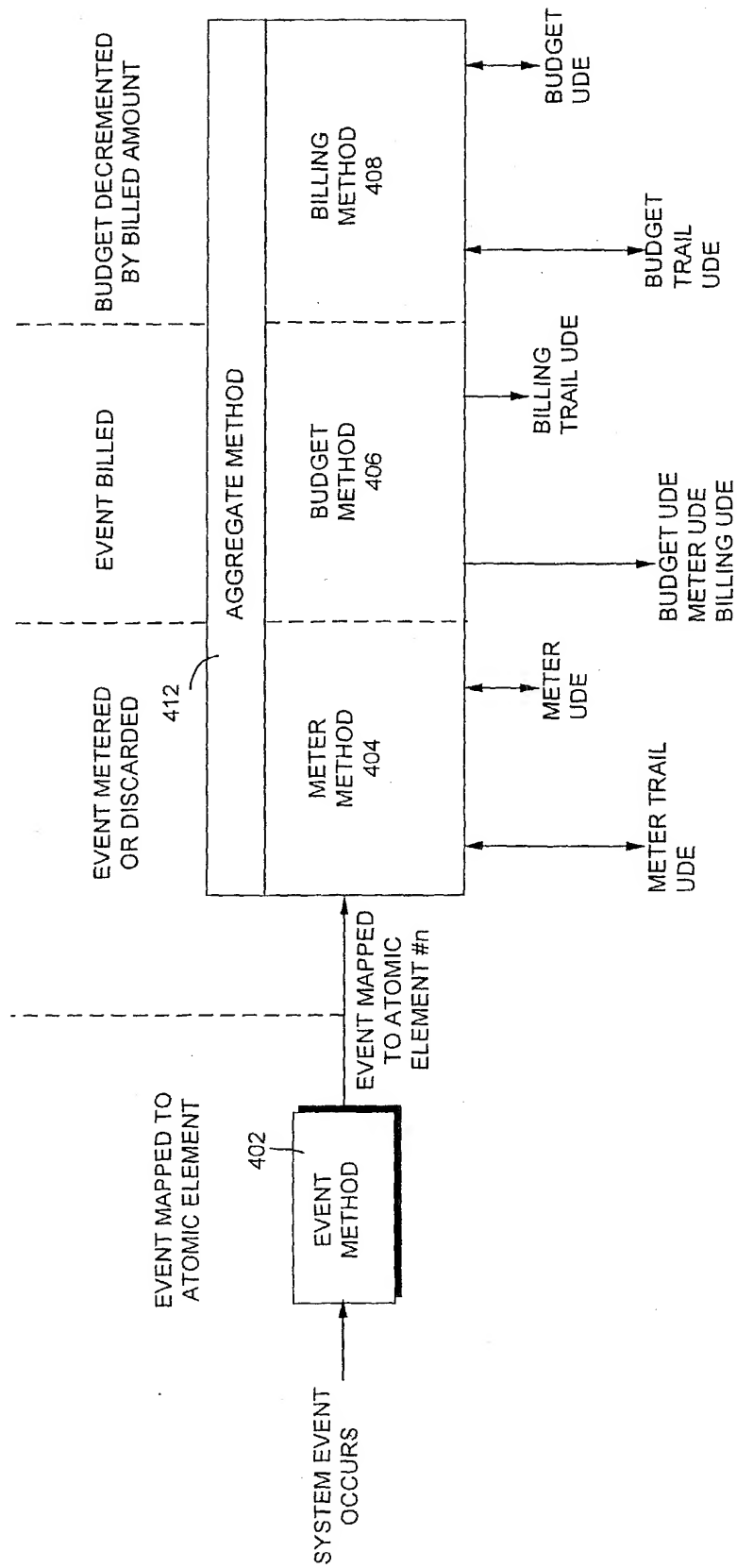
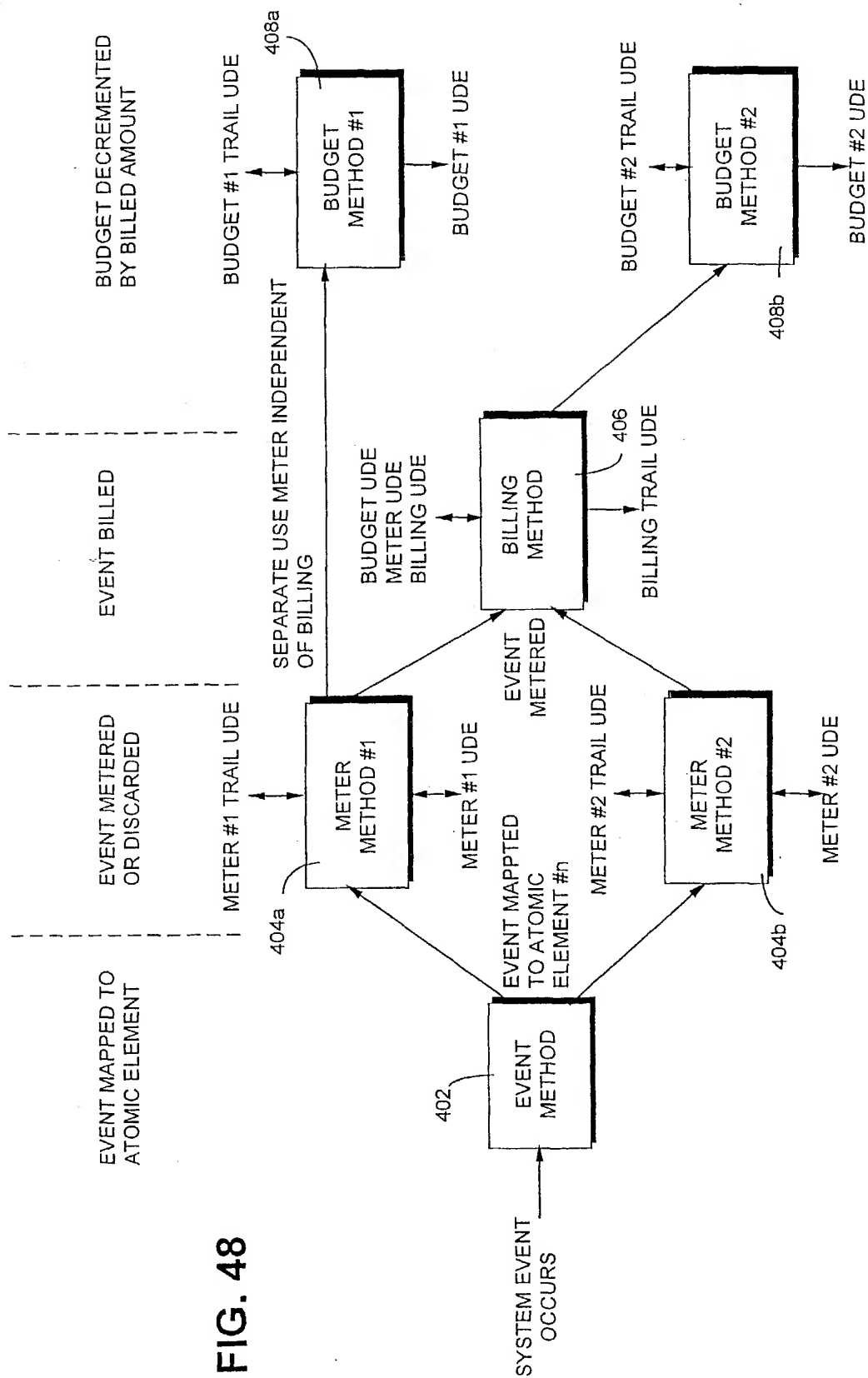
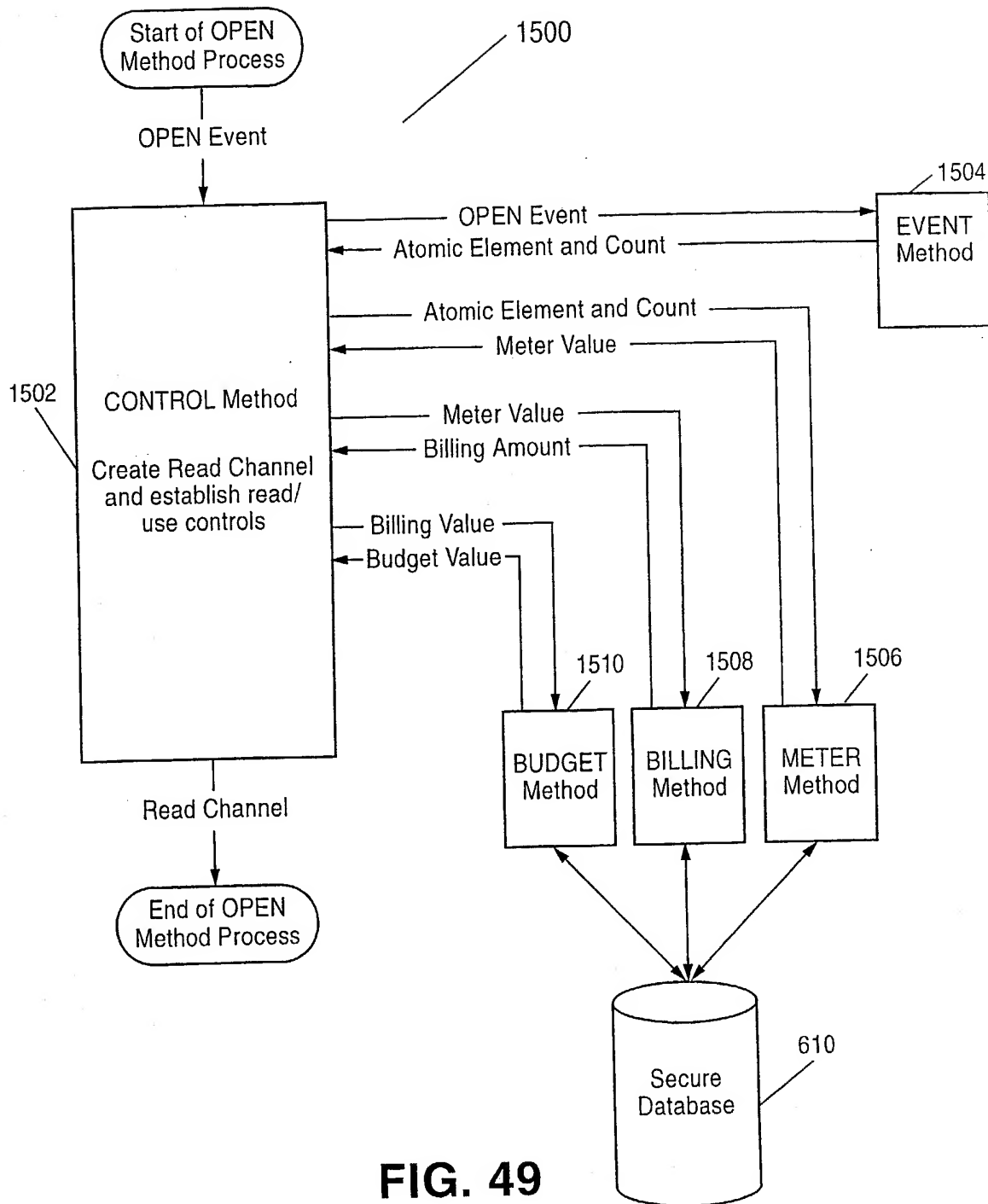


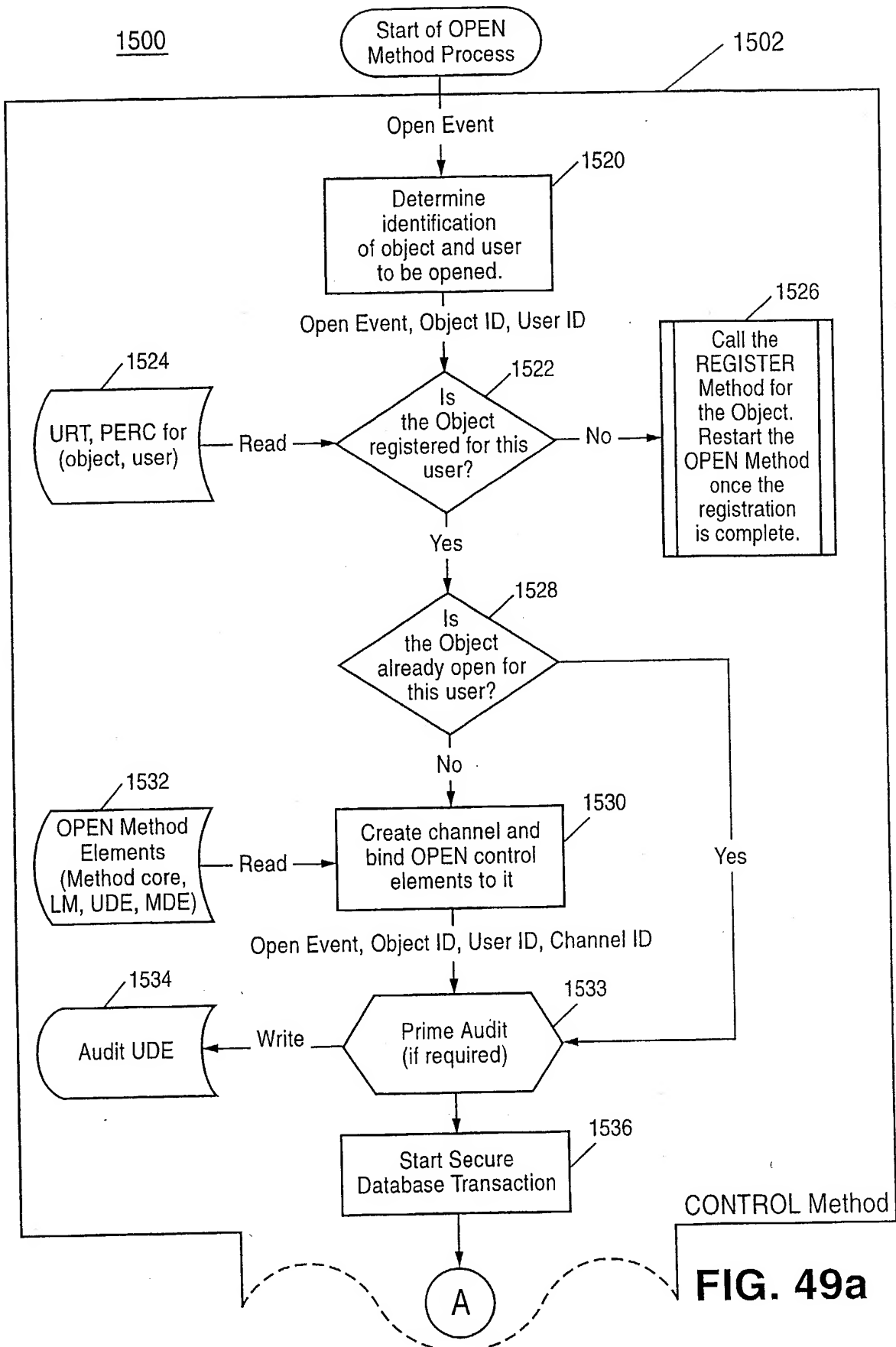
FIG. 47



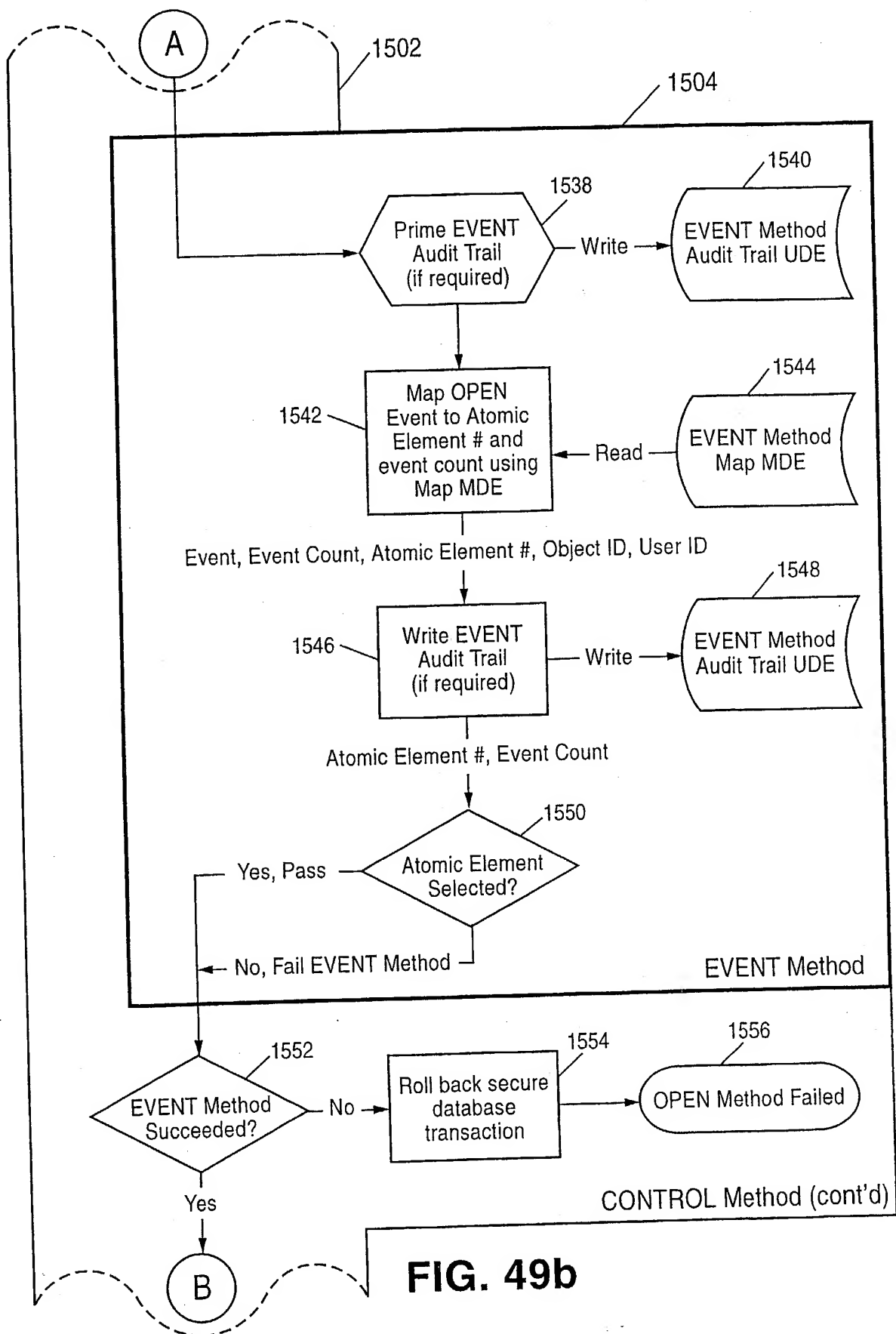




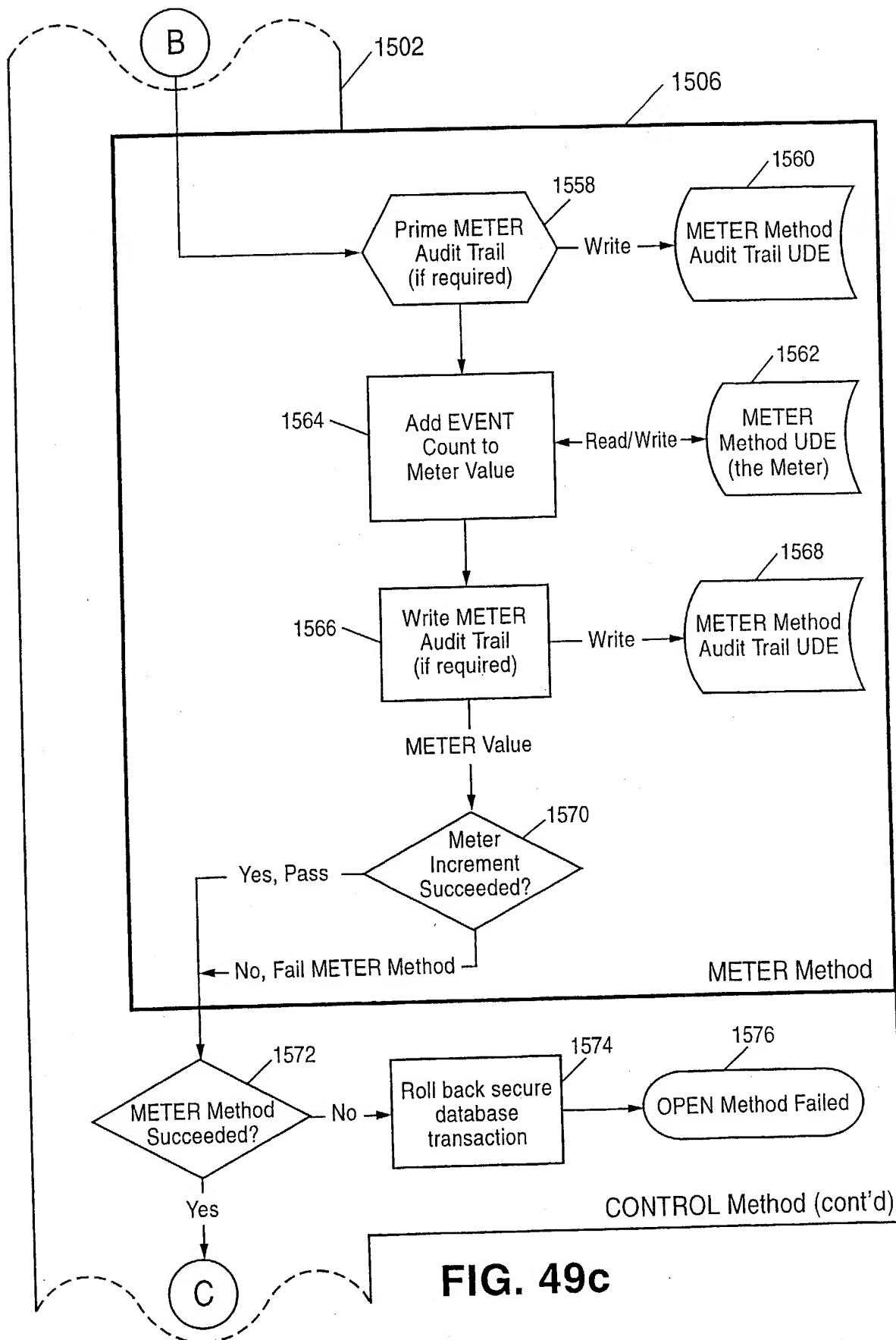
**FIG. 49**



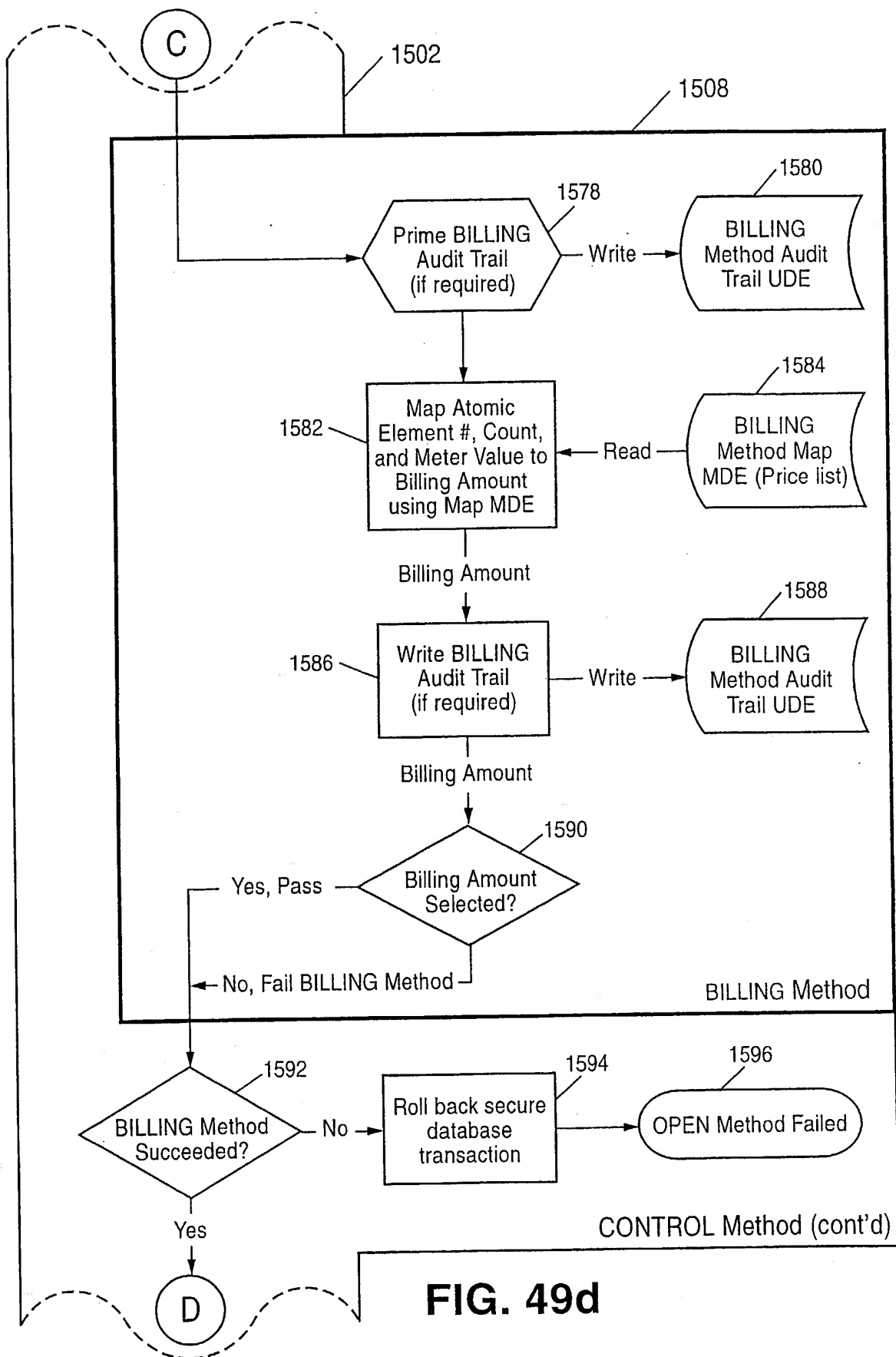
**FIG. 49a**



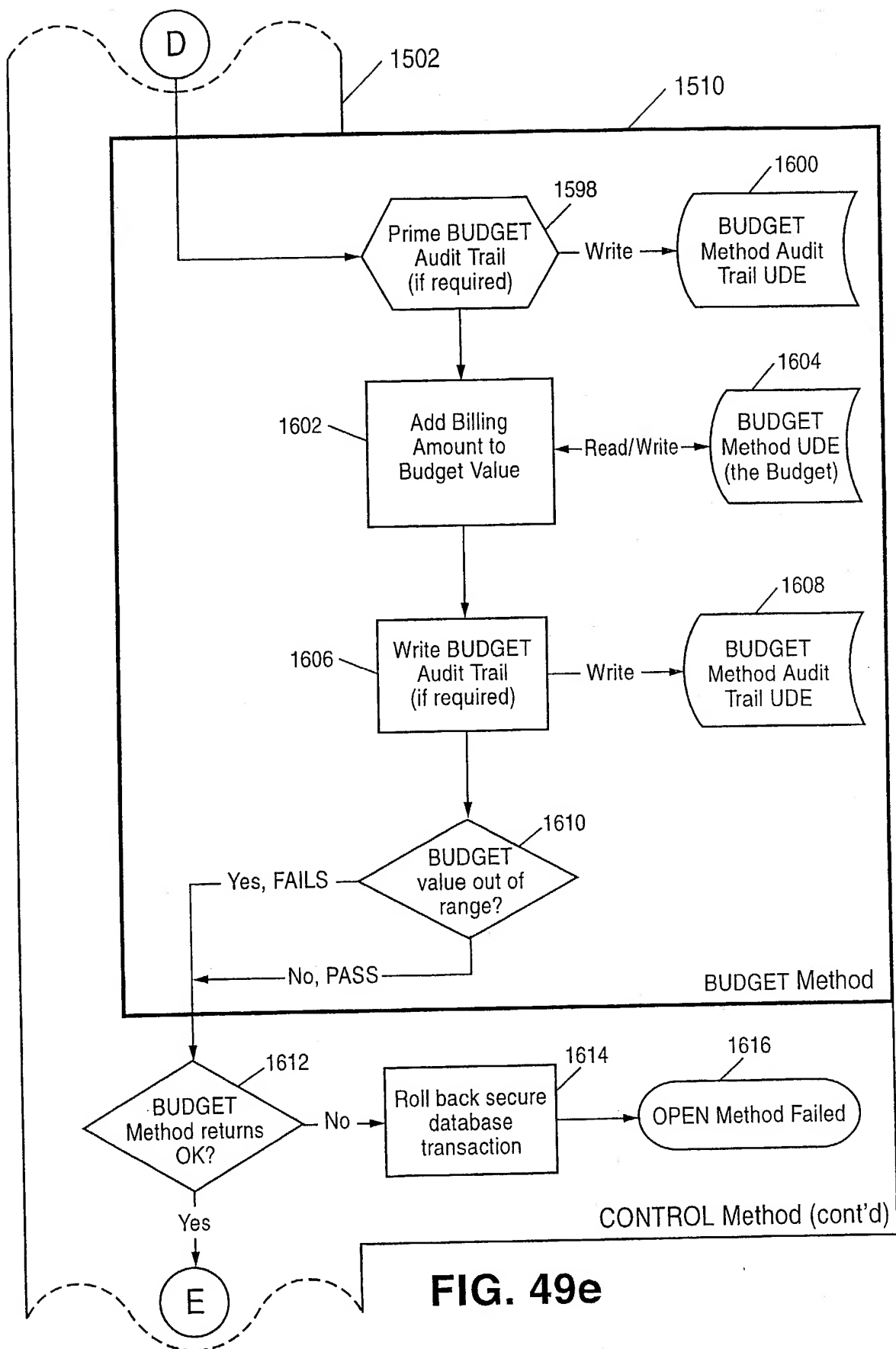
**FIG. 49b**



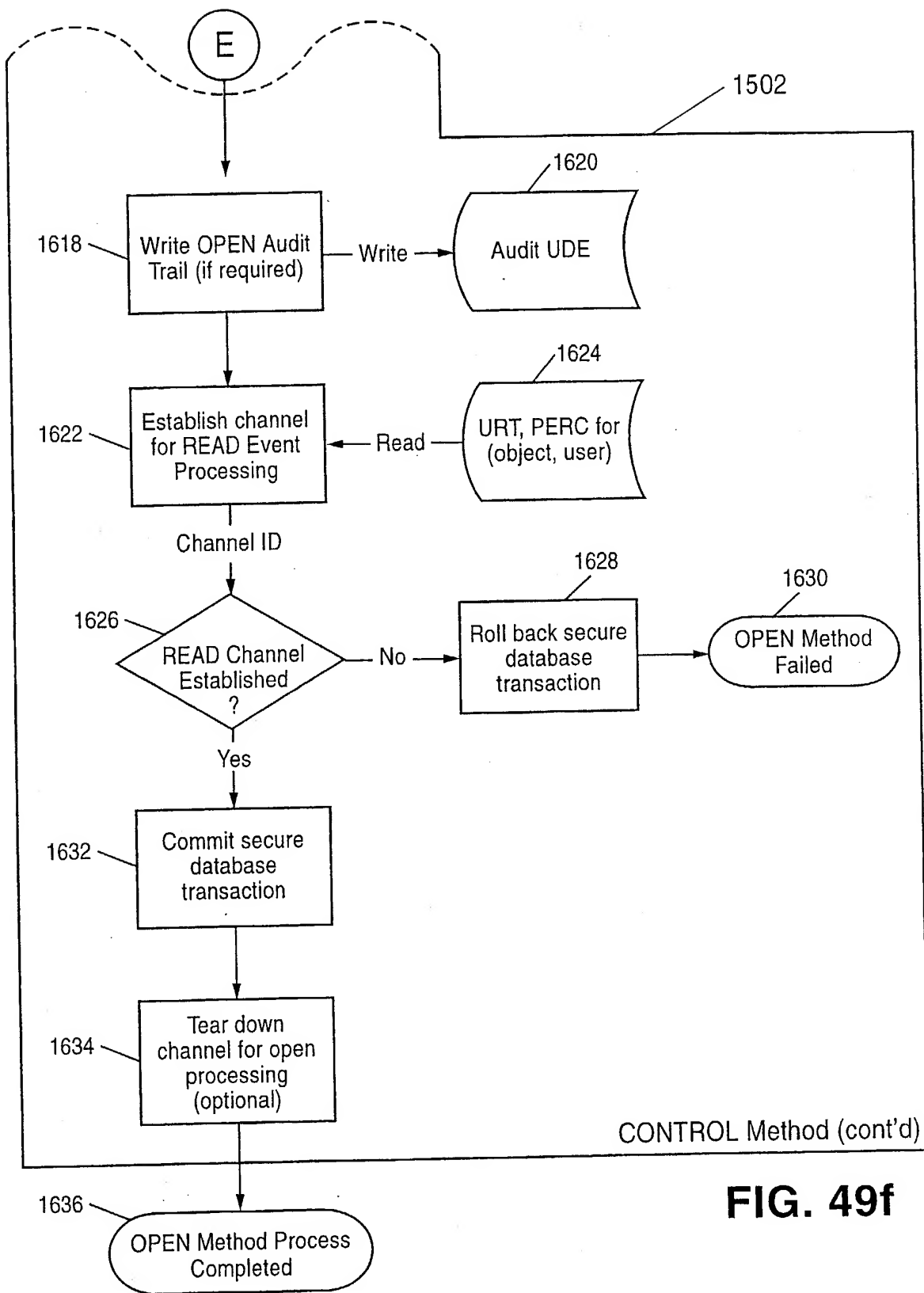
**FIG. 49c**



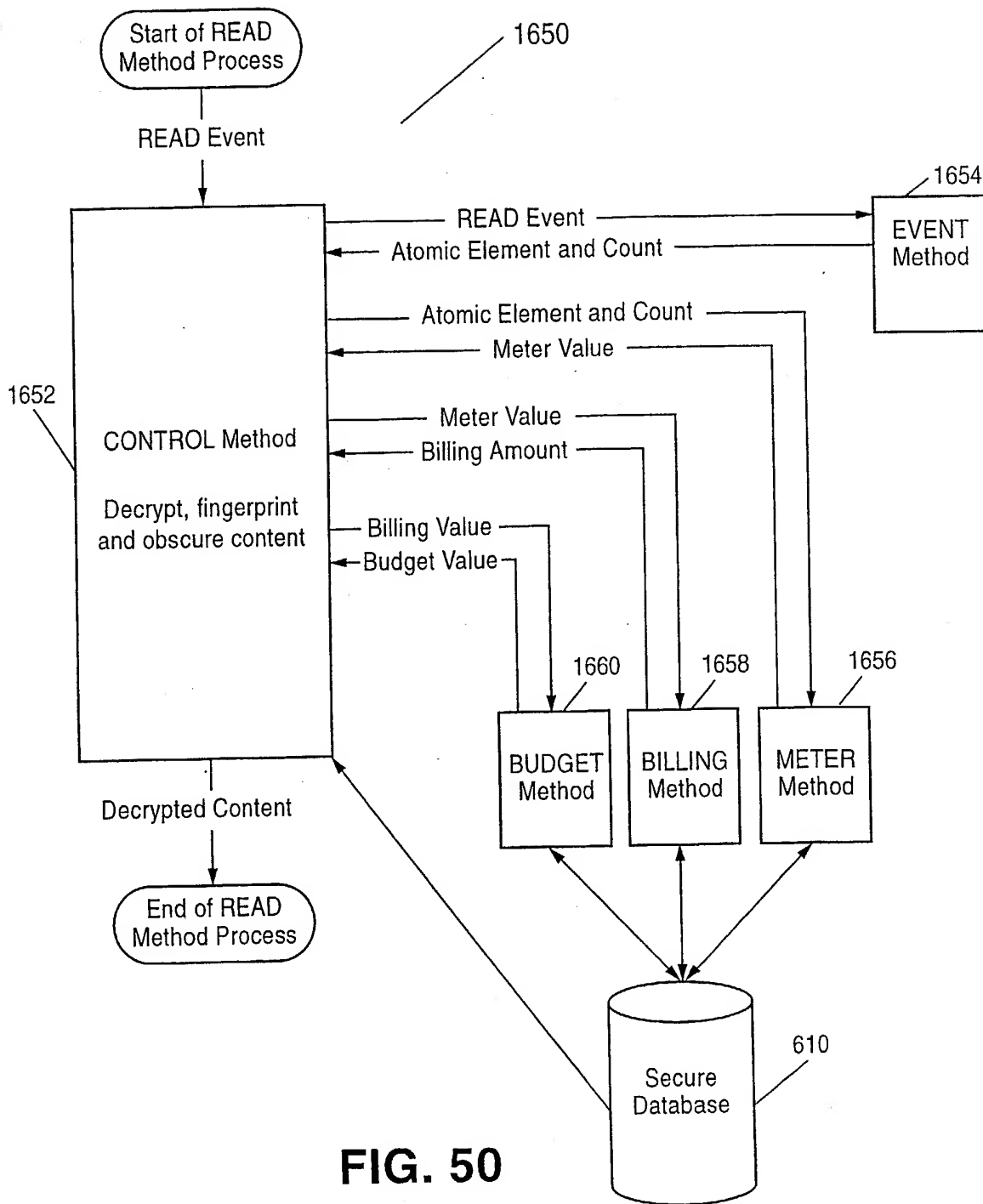
**FIG. 49d**



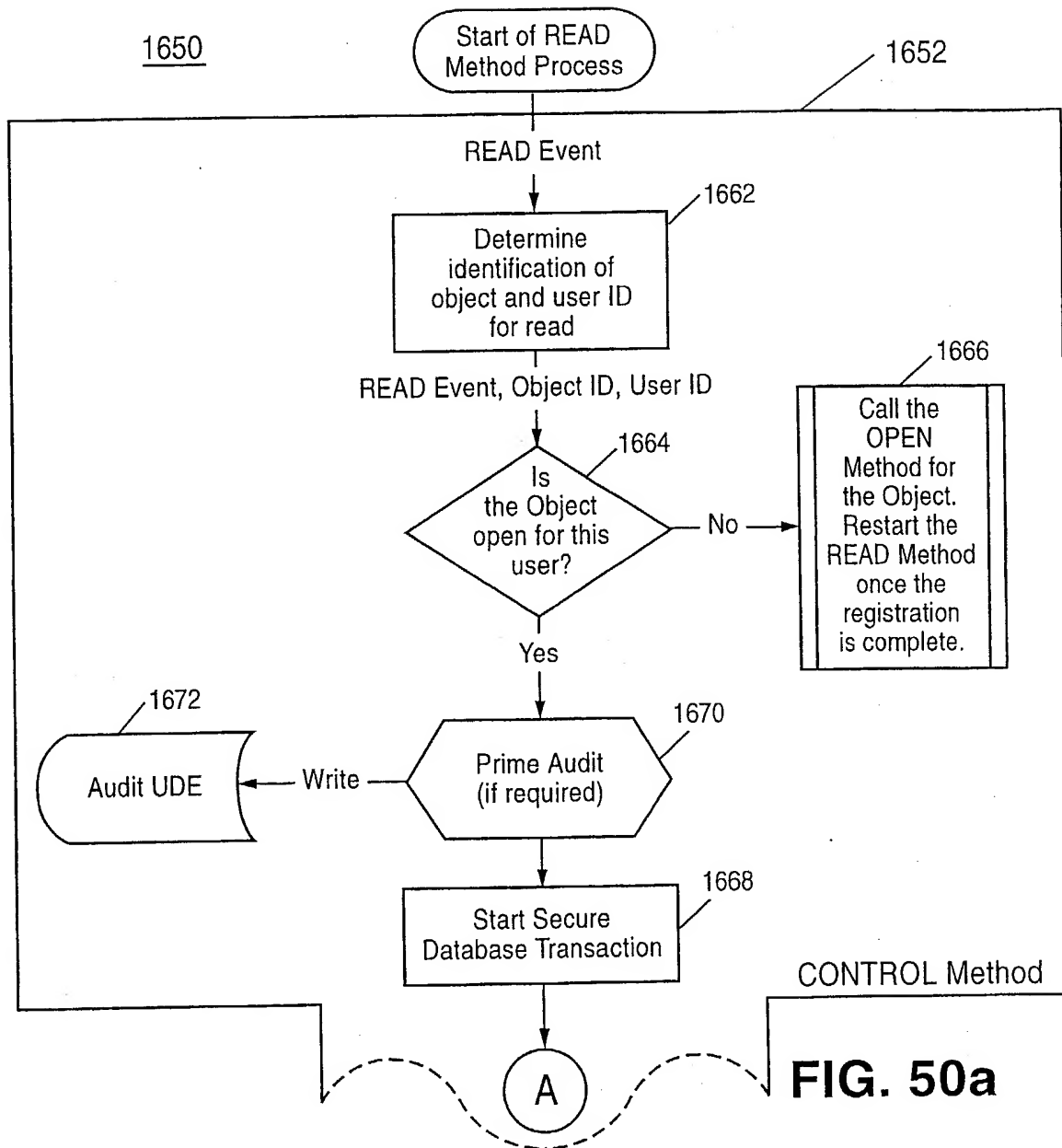
**FIG. 49e**

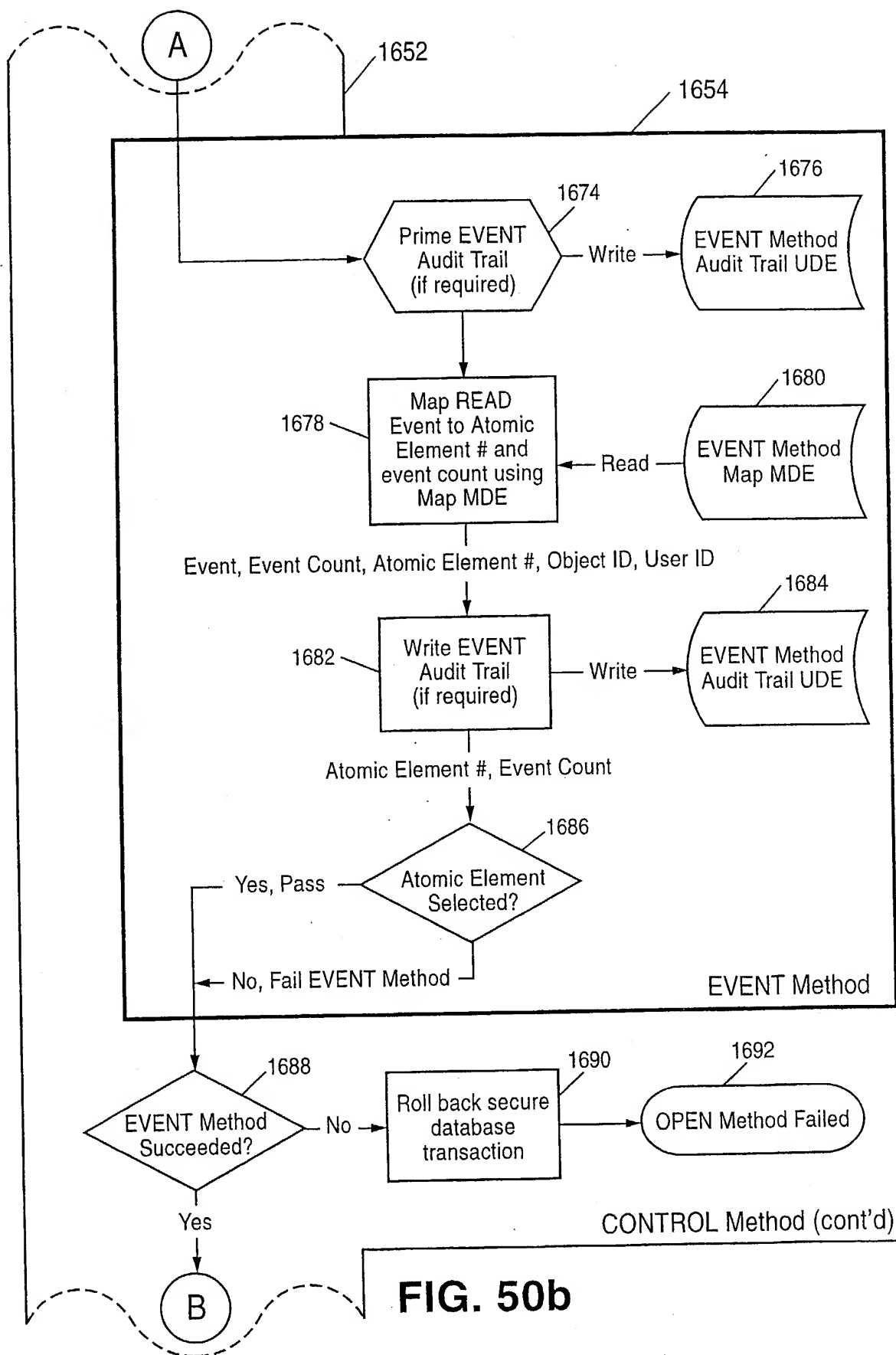


**FIG. 49f**

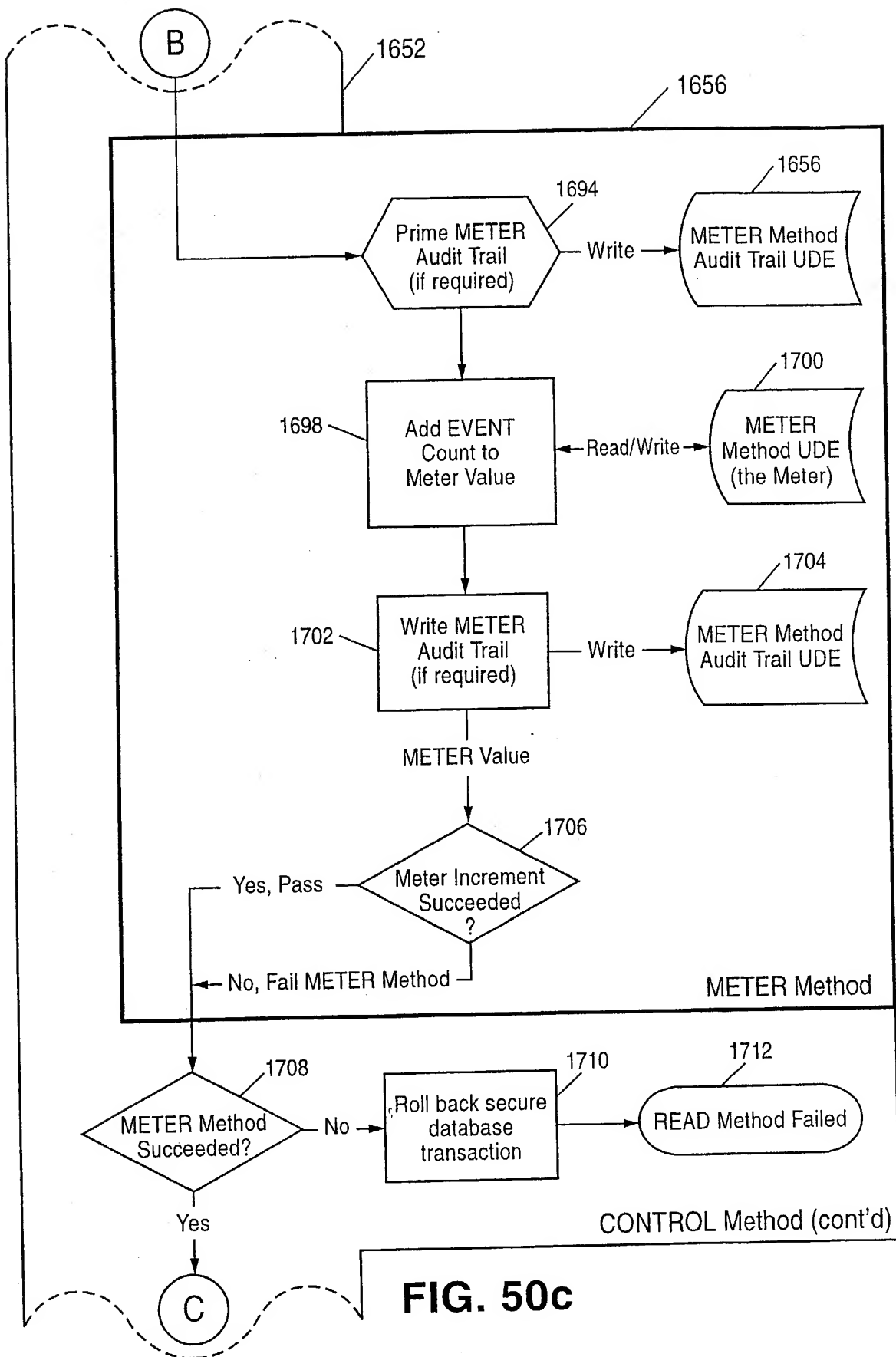


**FIG. 50**

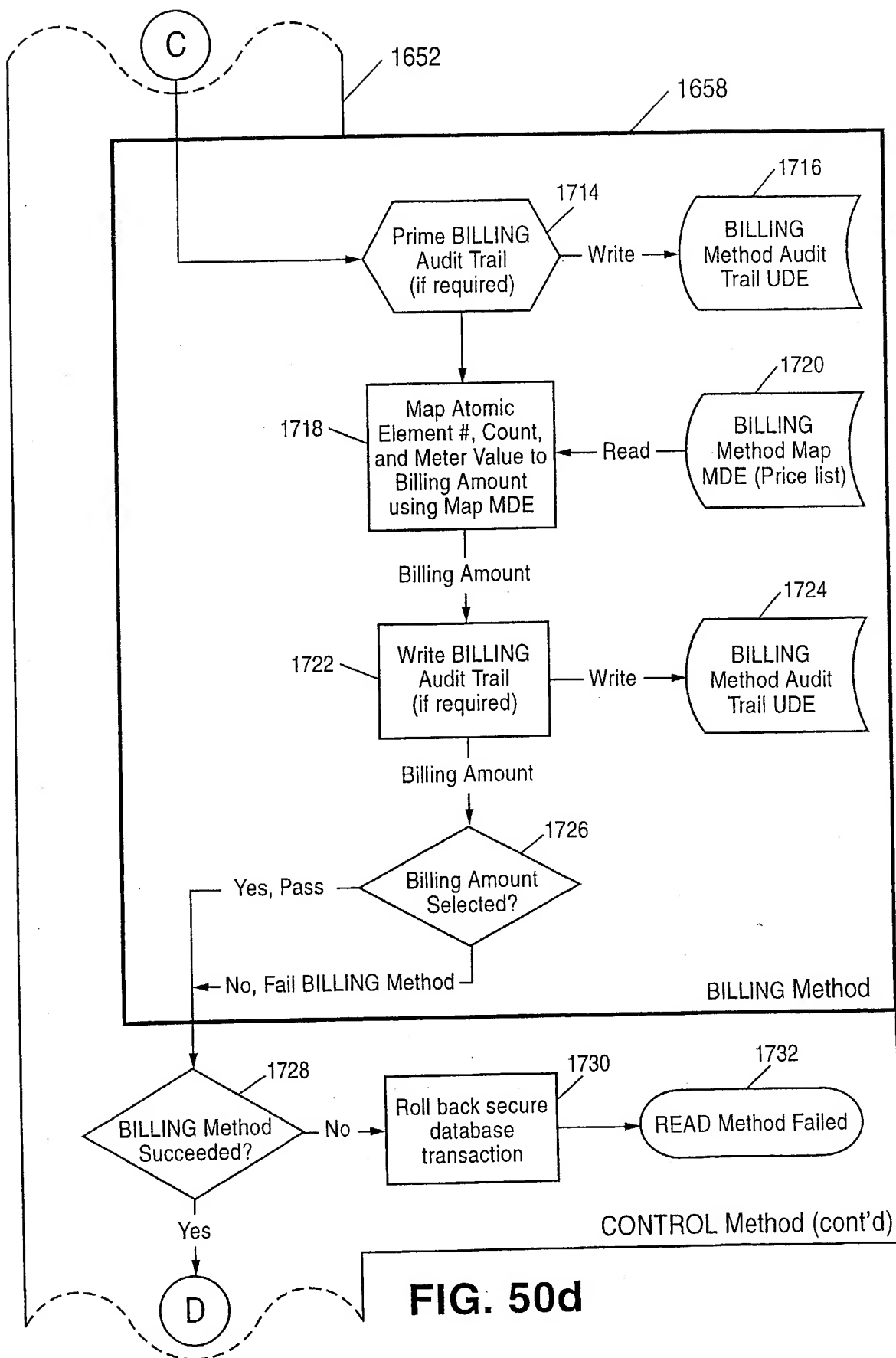




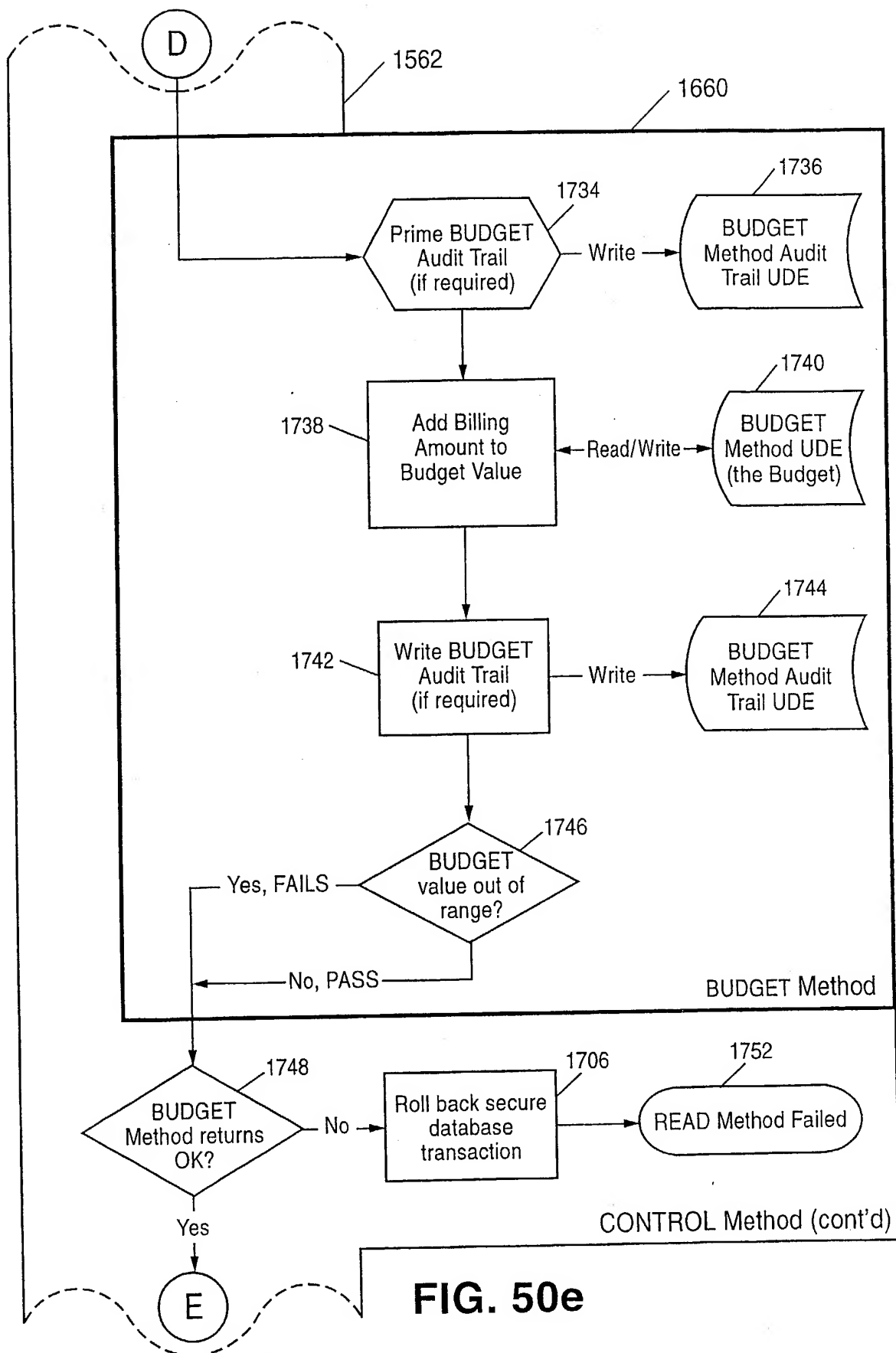
**FIG. 50b**



**FIG. 50c**

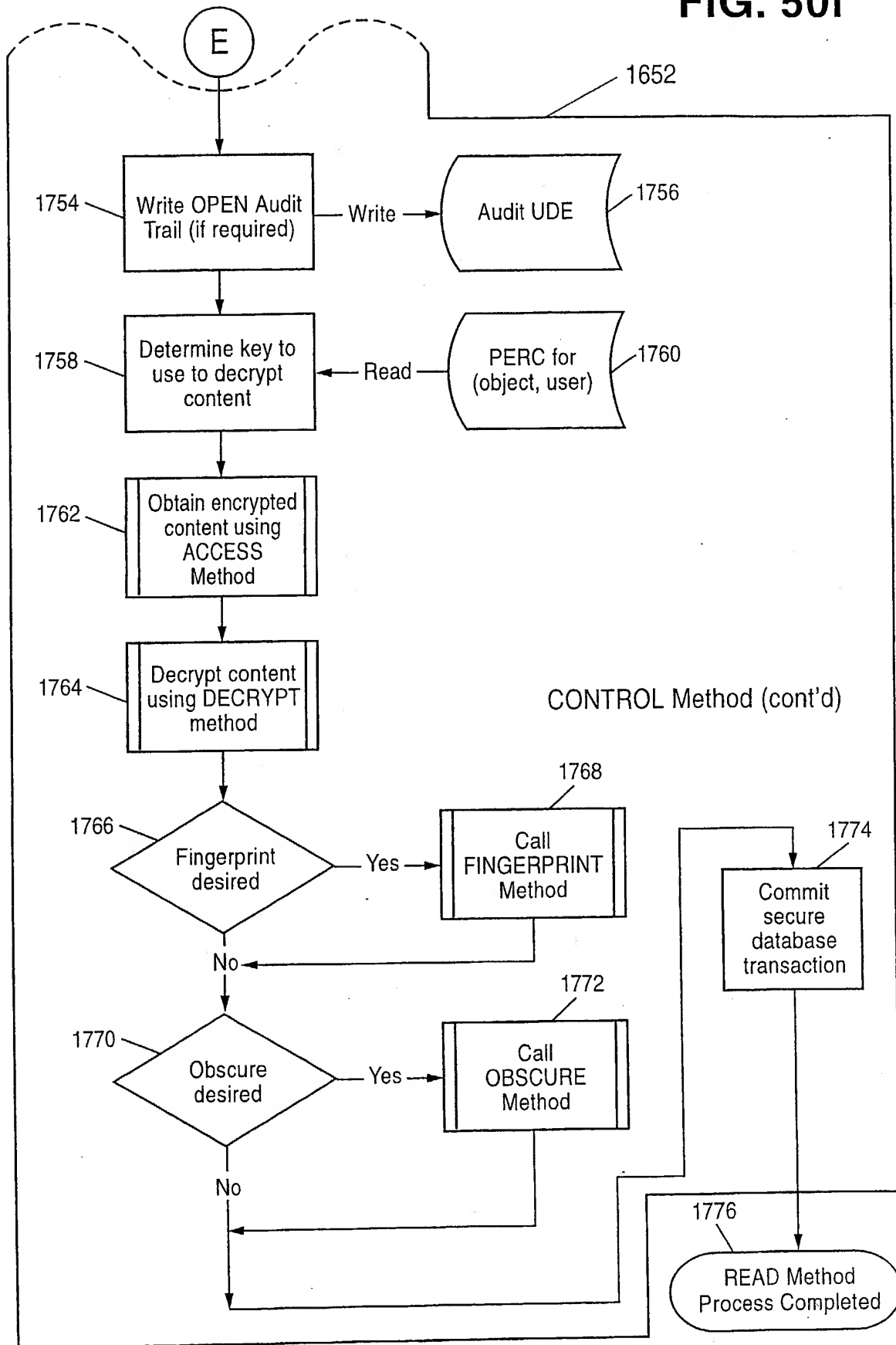


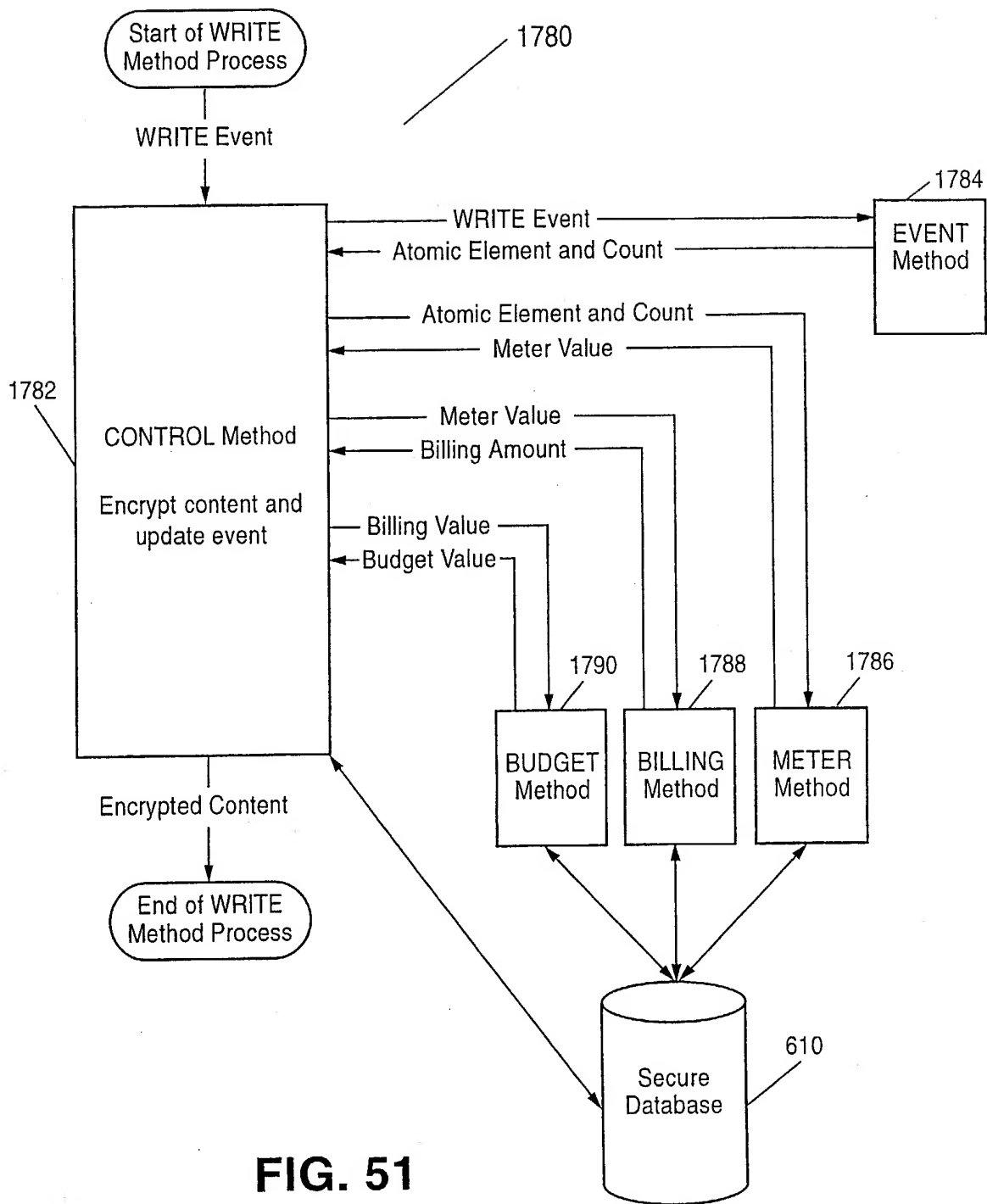
**FIG. 50d**



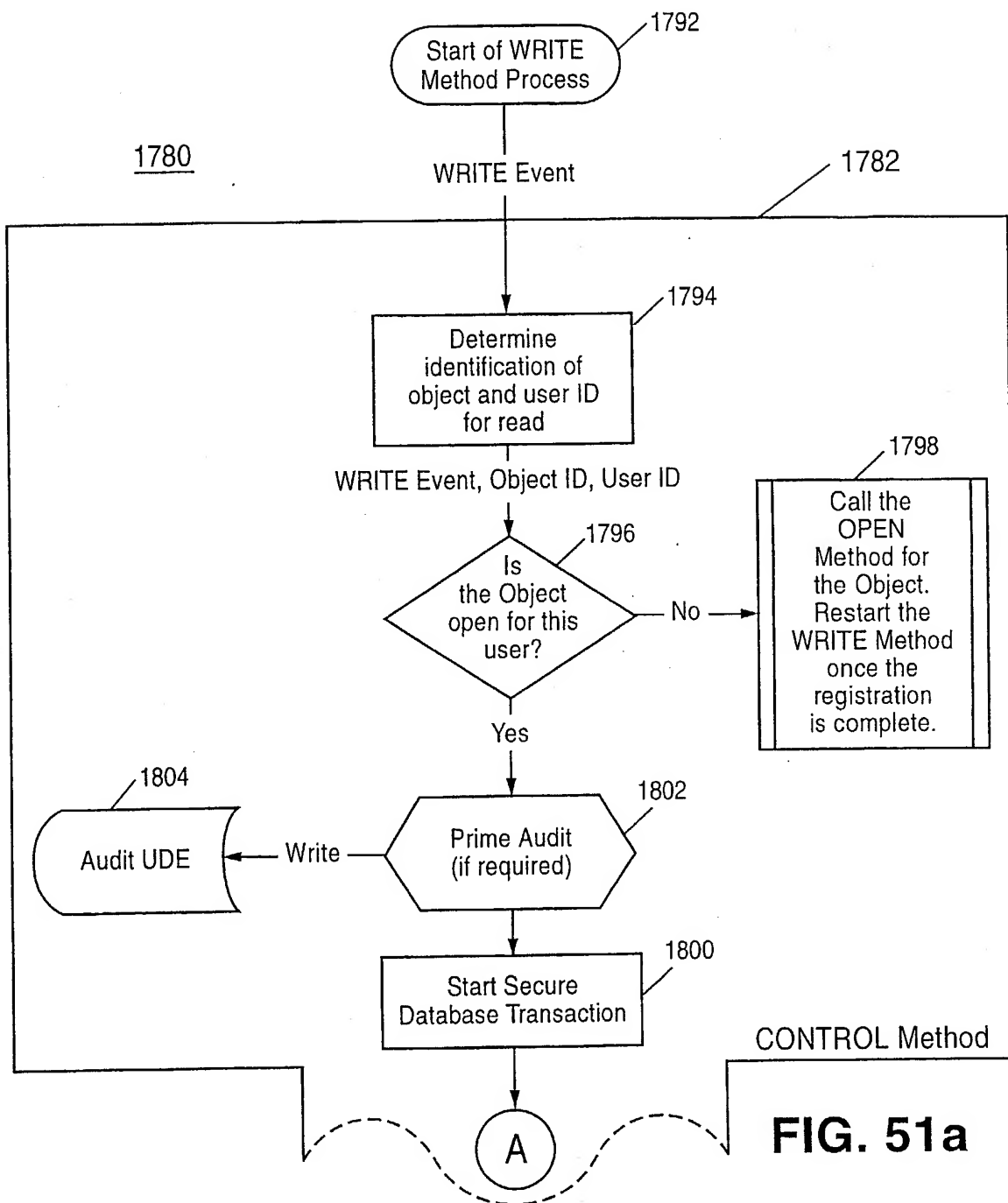
**FIG. 50e**

FIG. 50f

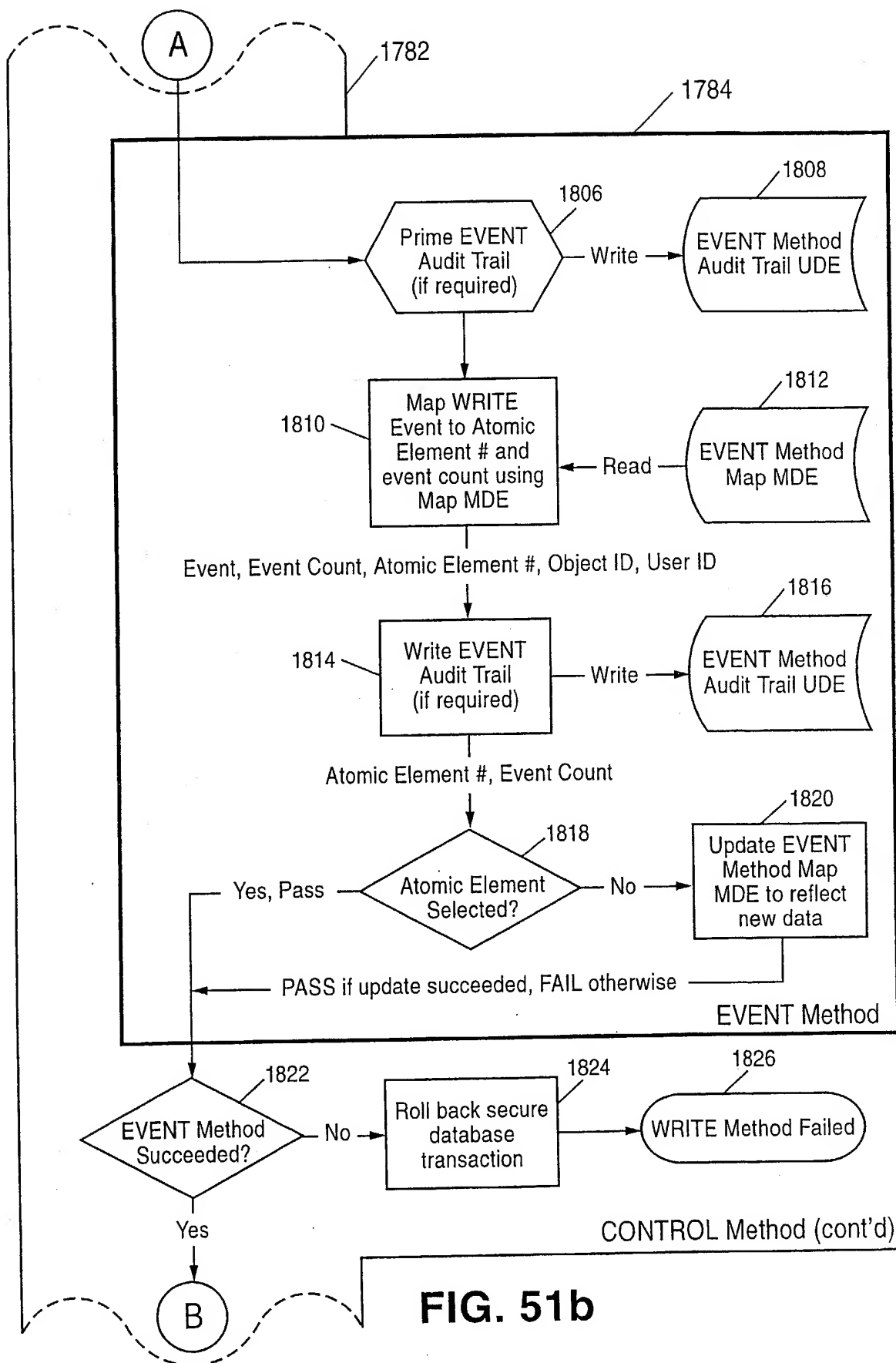


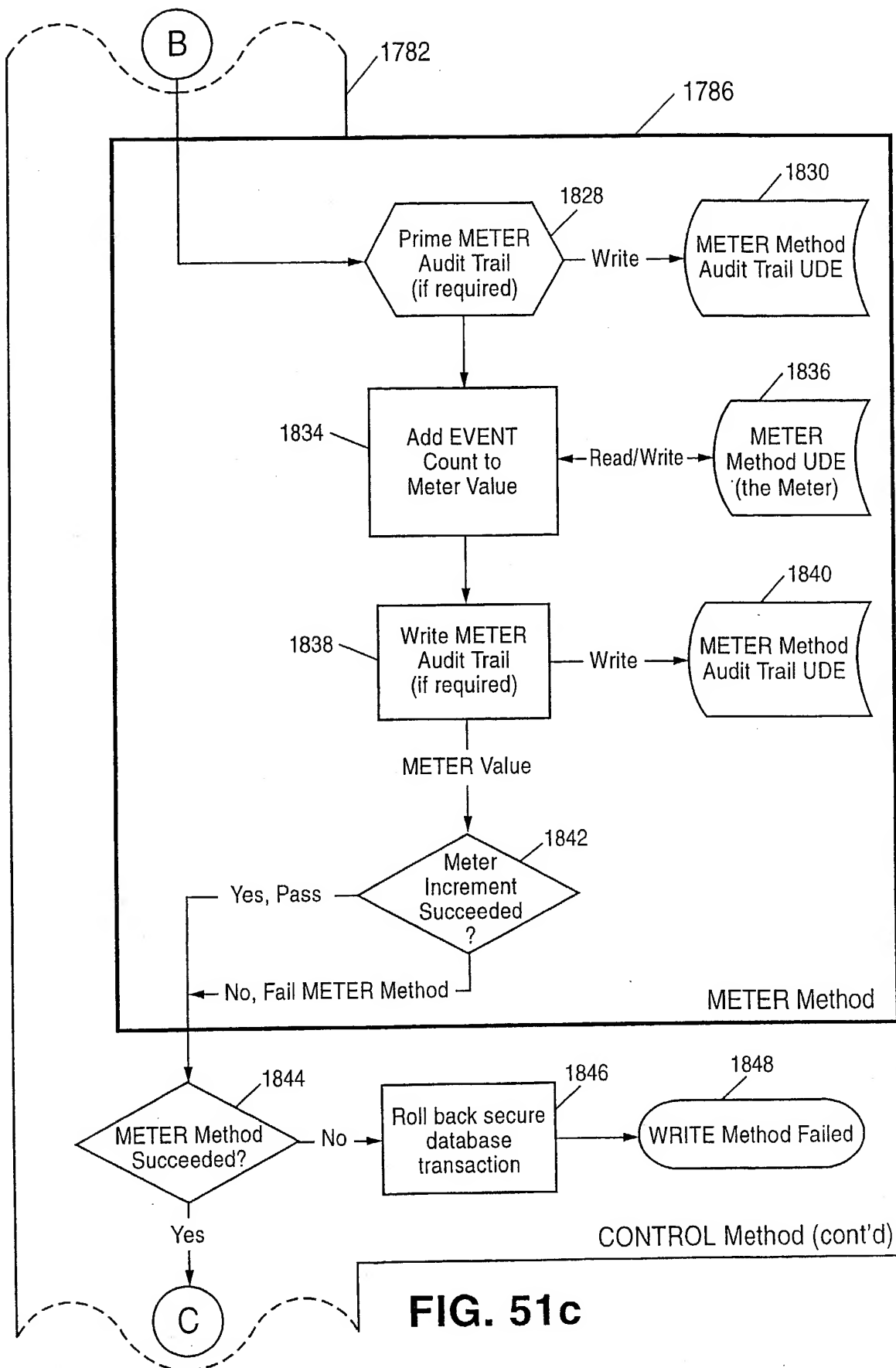


**FIG. 51**

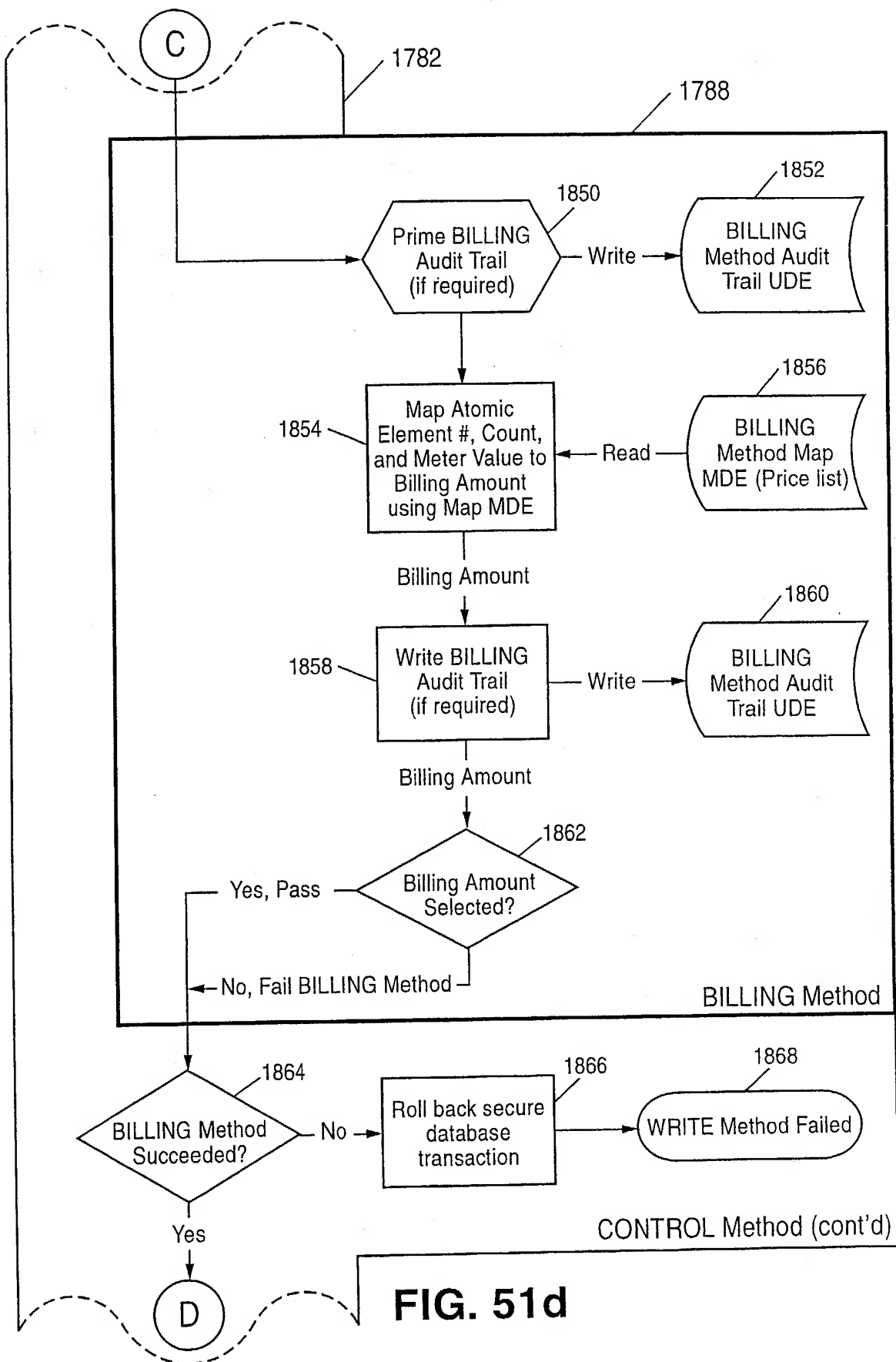


**FIG. 51a**

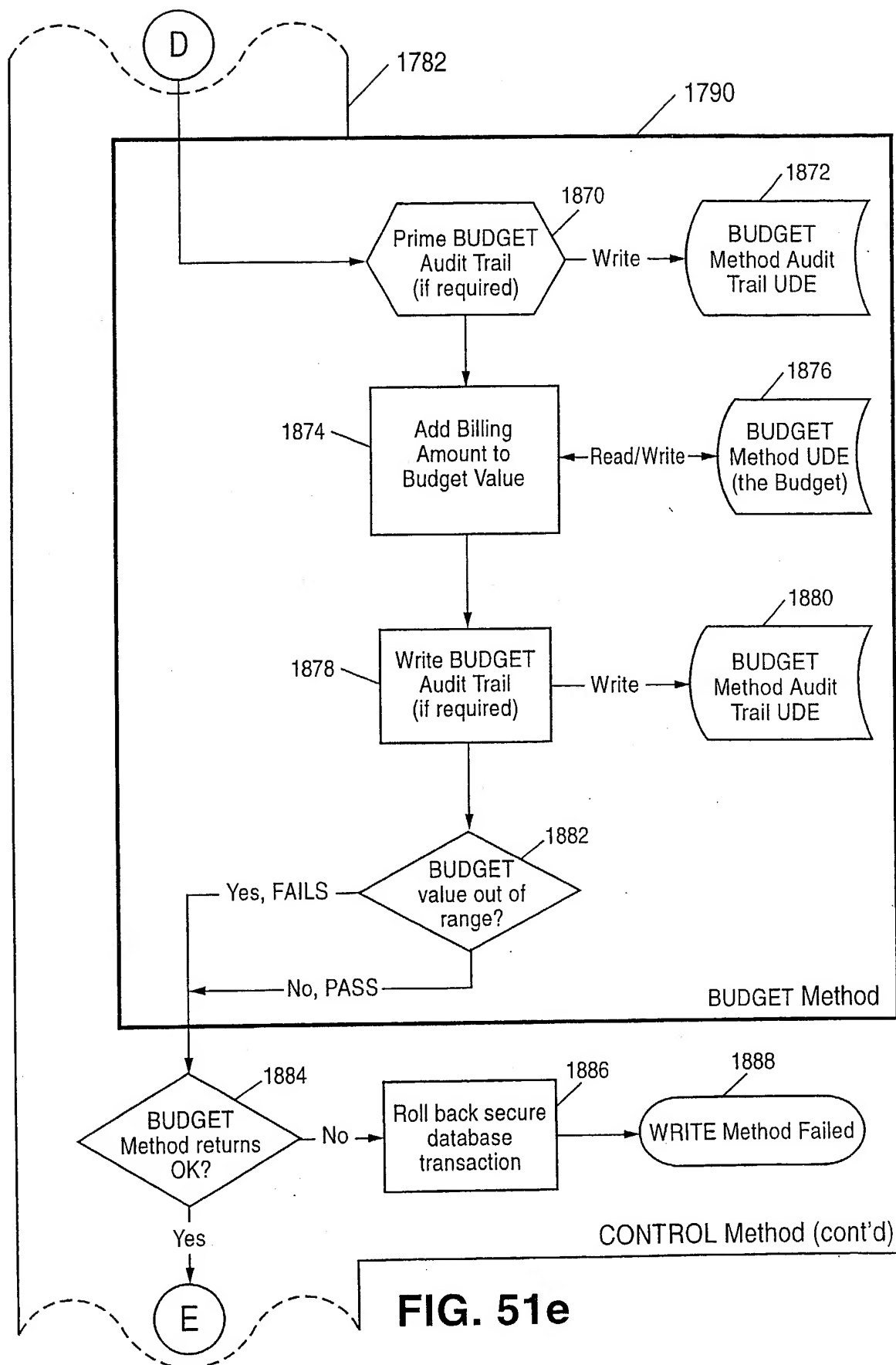




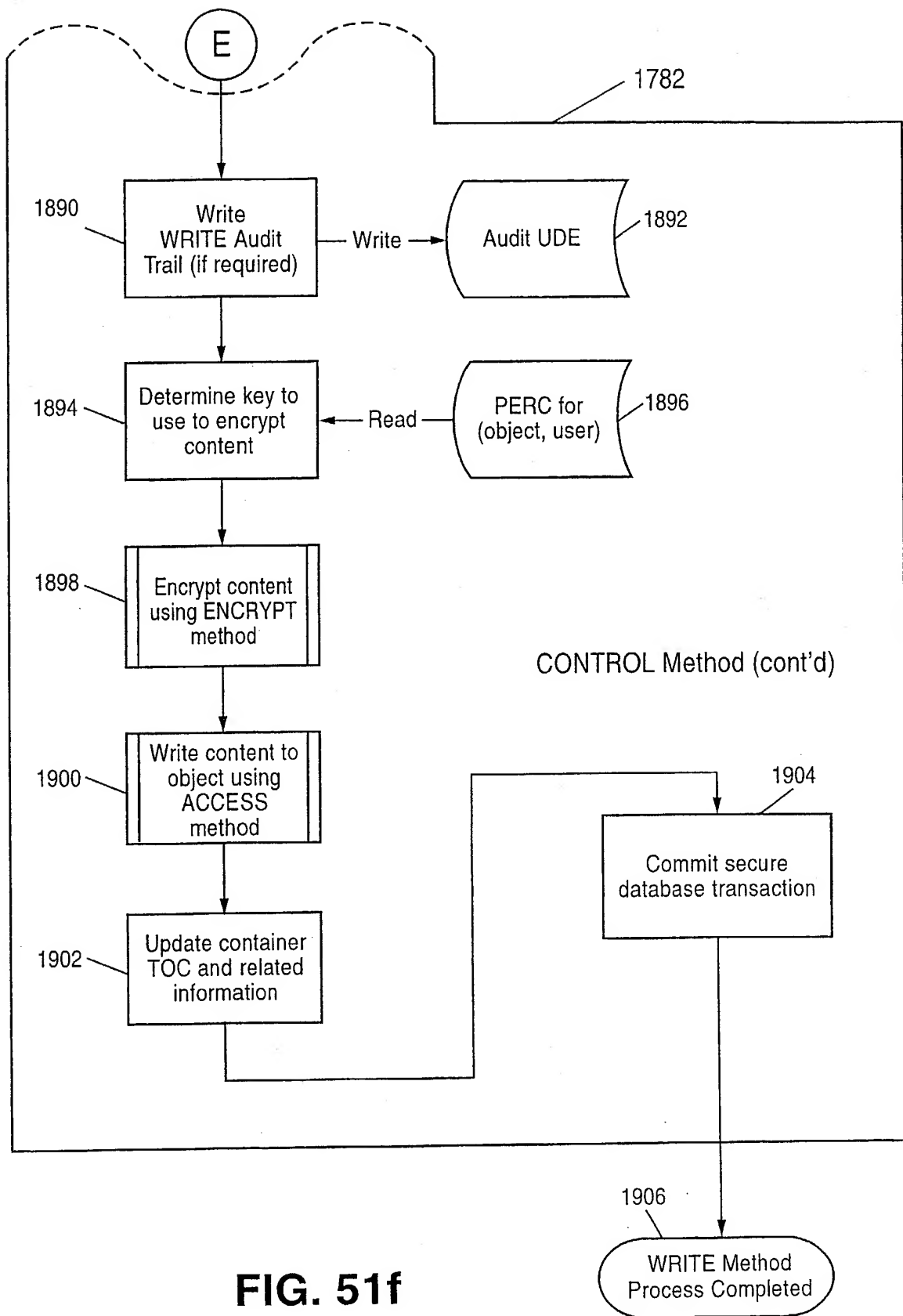
**FIG. 51c**



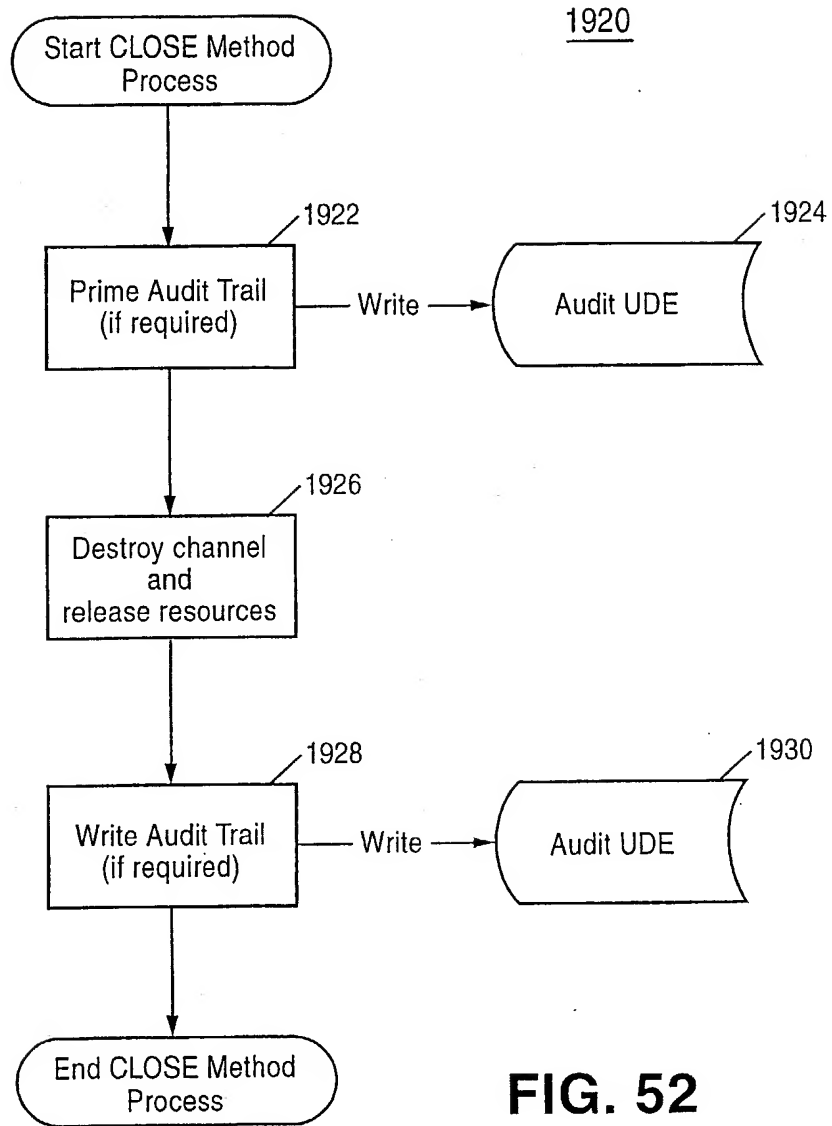
**FIG. 51d**



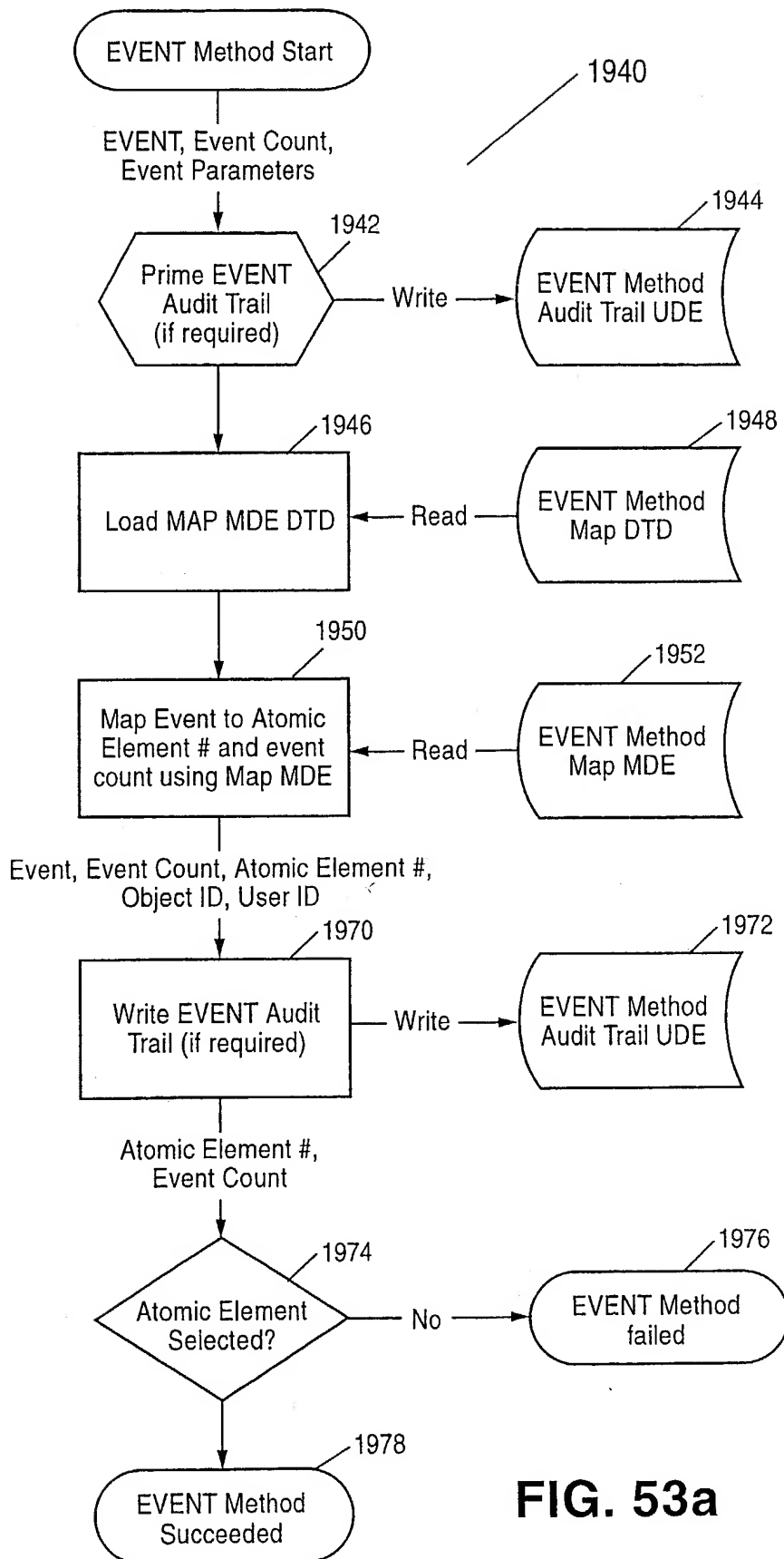
**FIG. 51e**



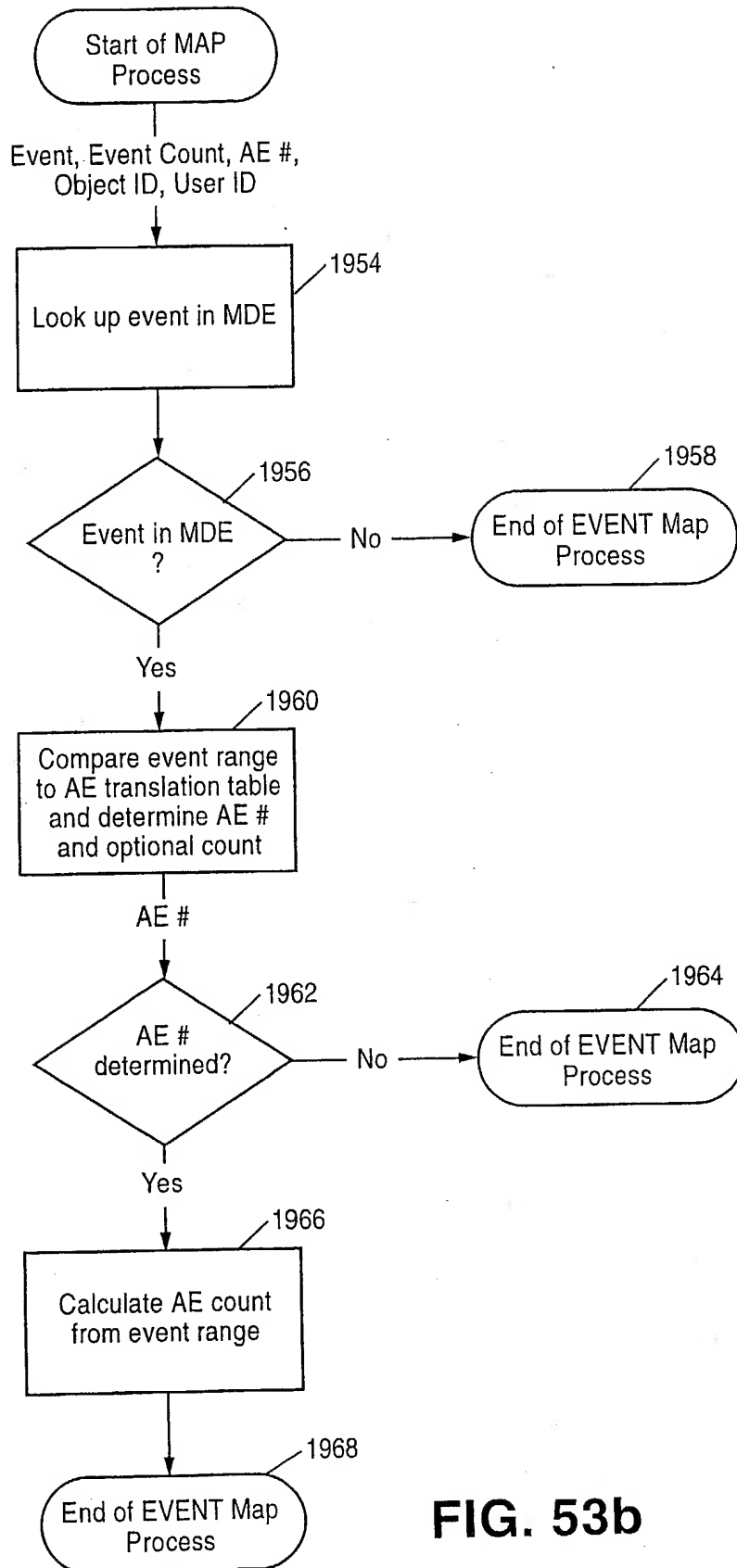
**FIG. 51f**



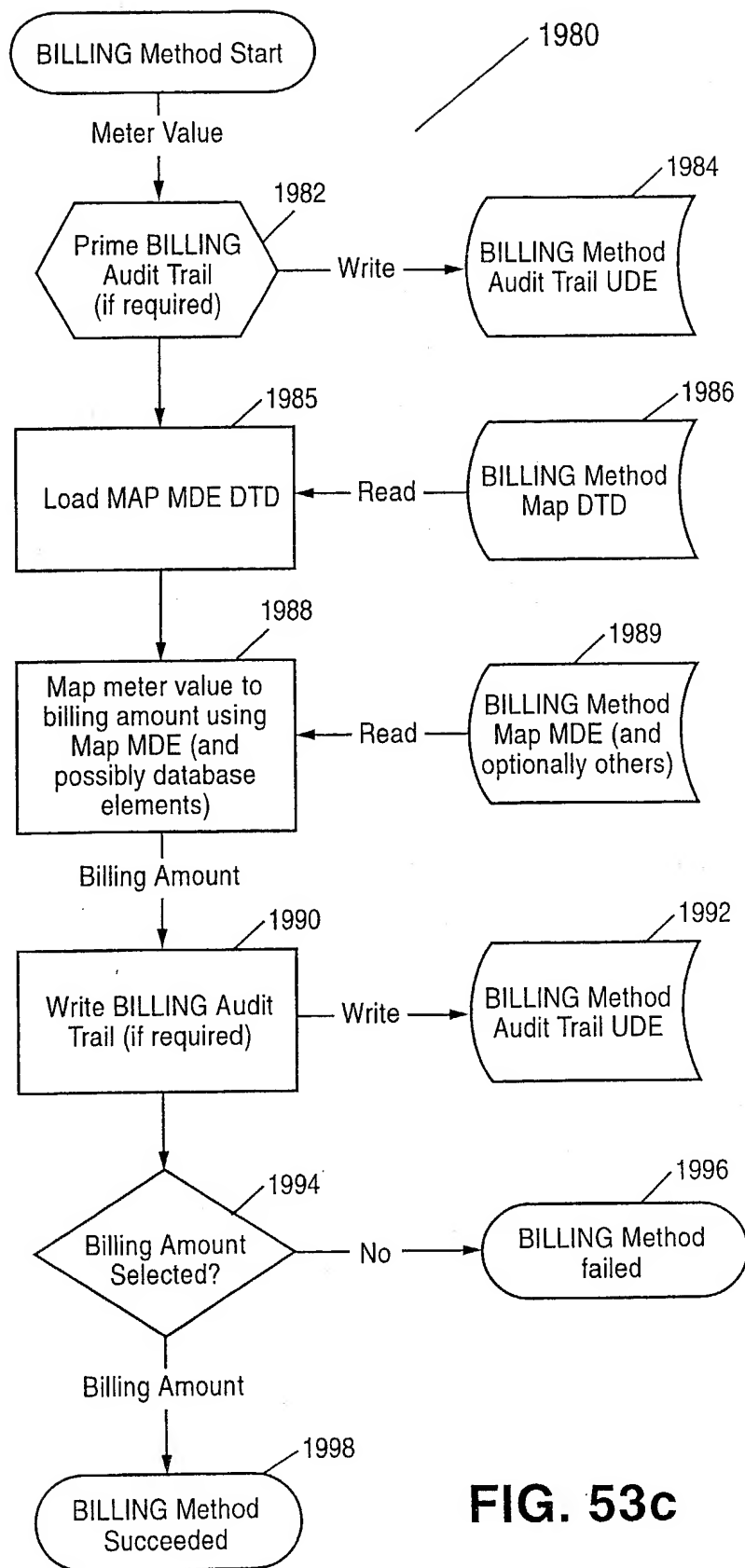
**FIG. 52**



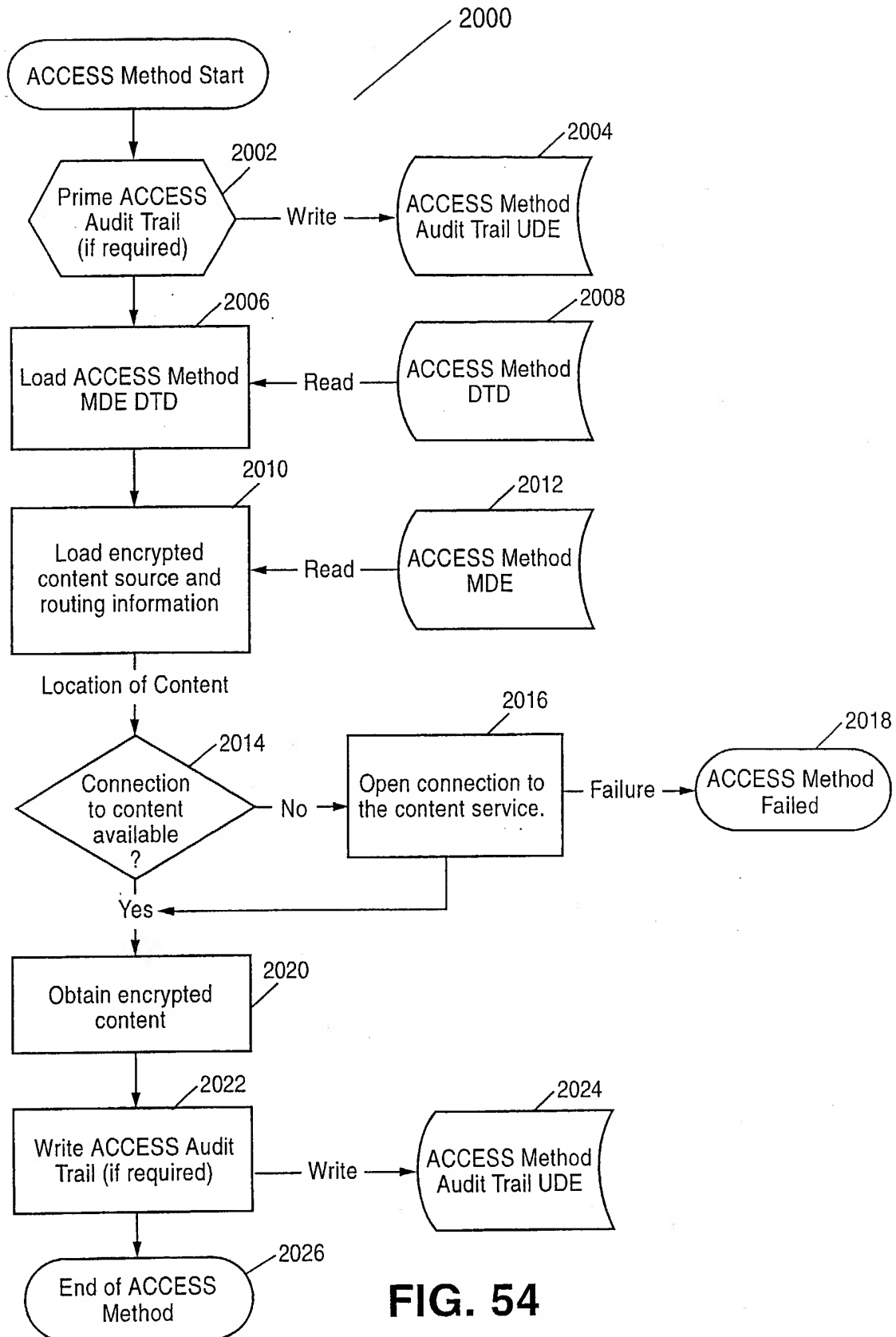
**FIG. 53a**



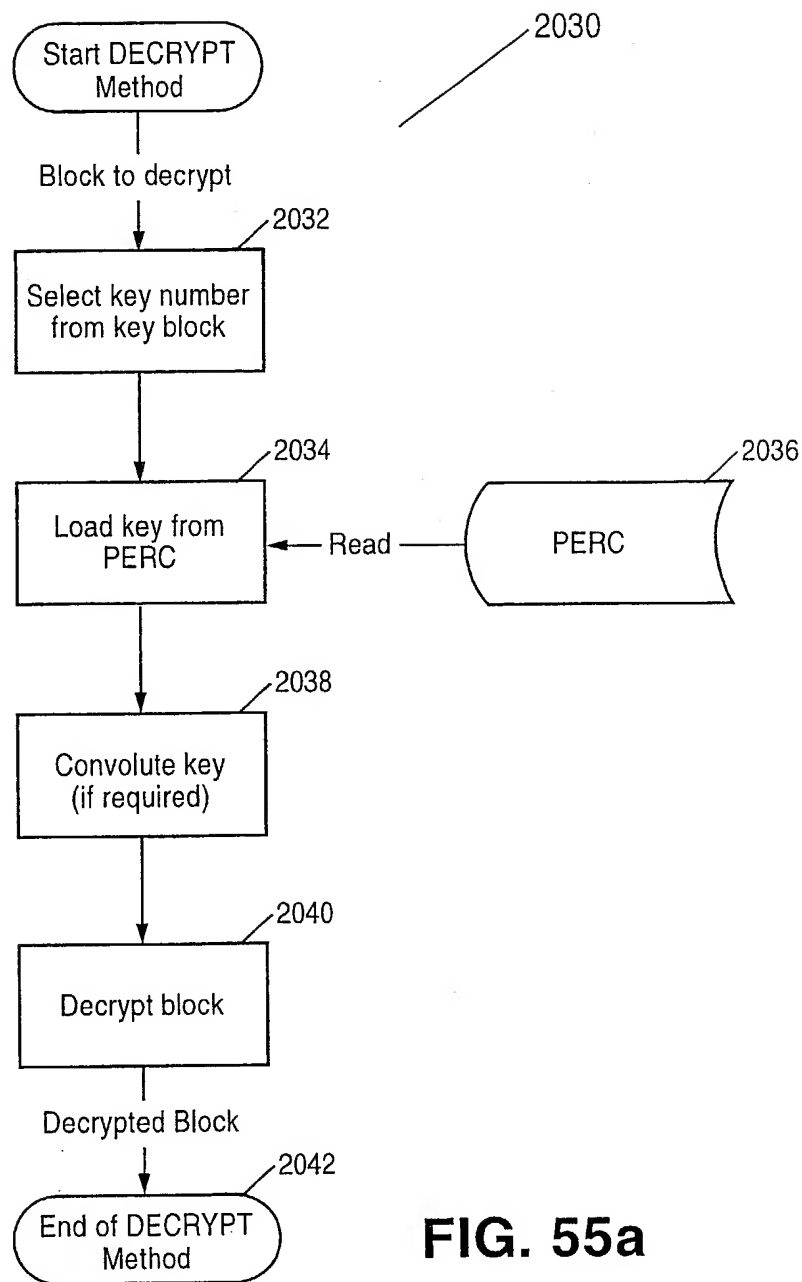
**FIG. 53b**



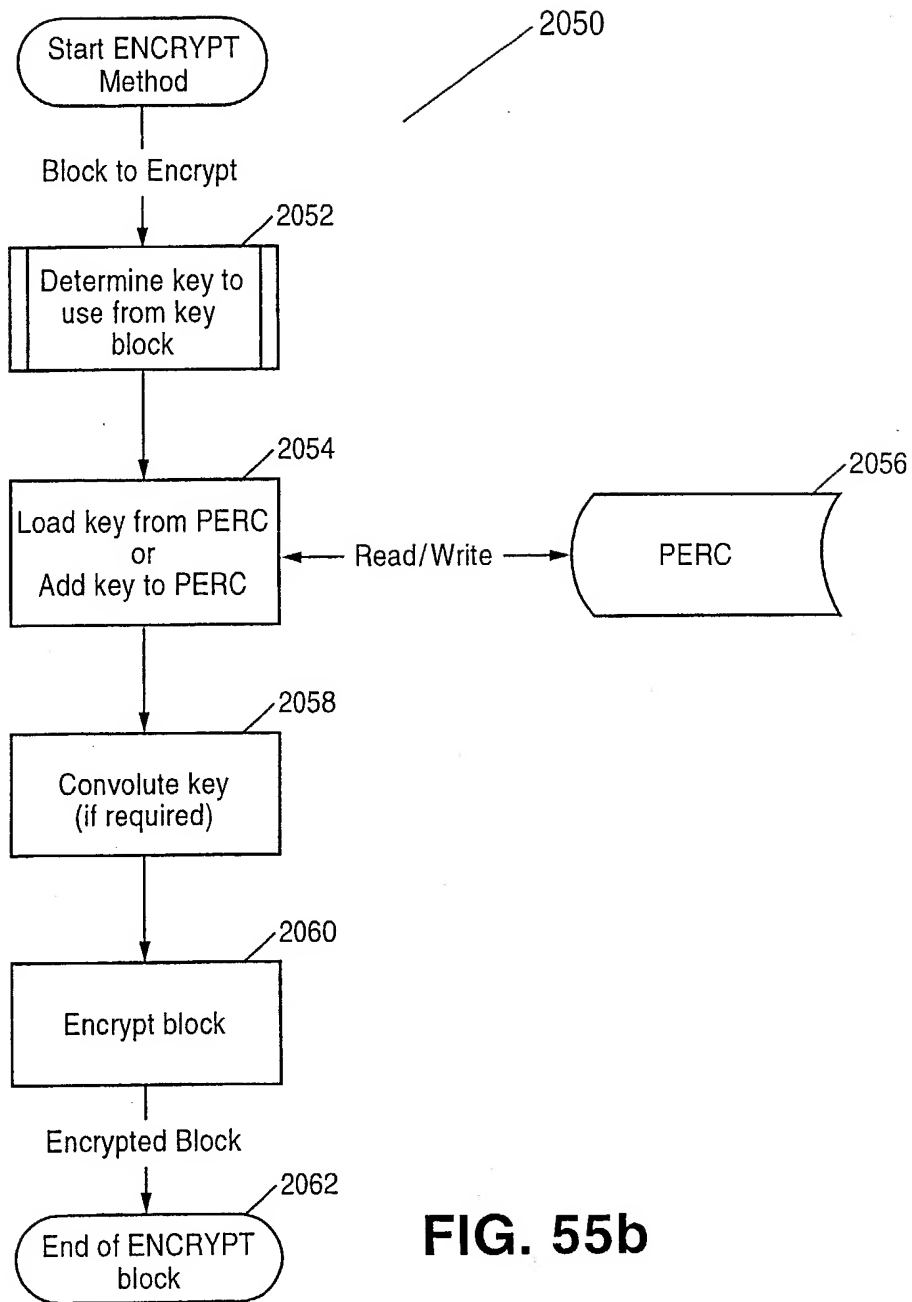
**FIG. 53c**



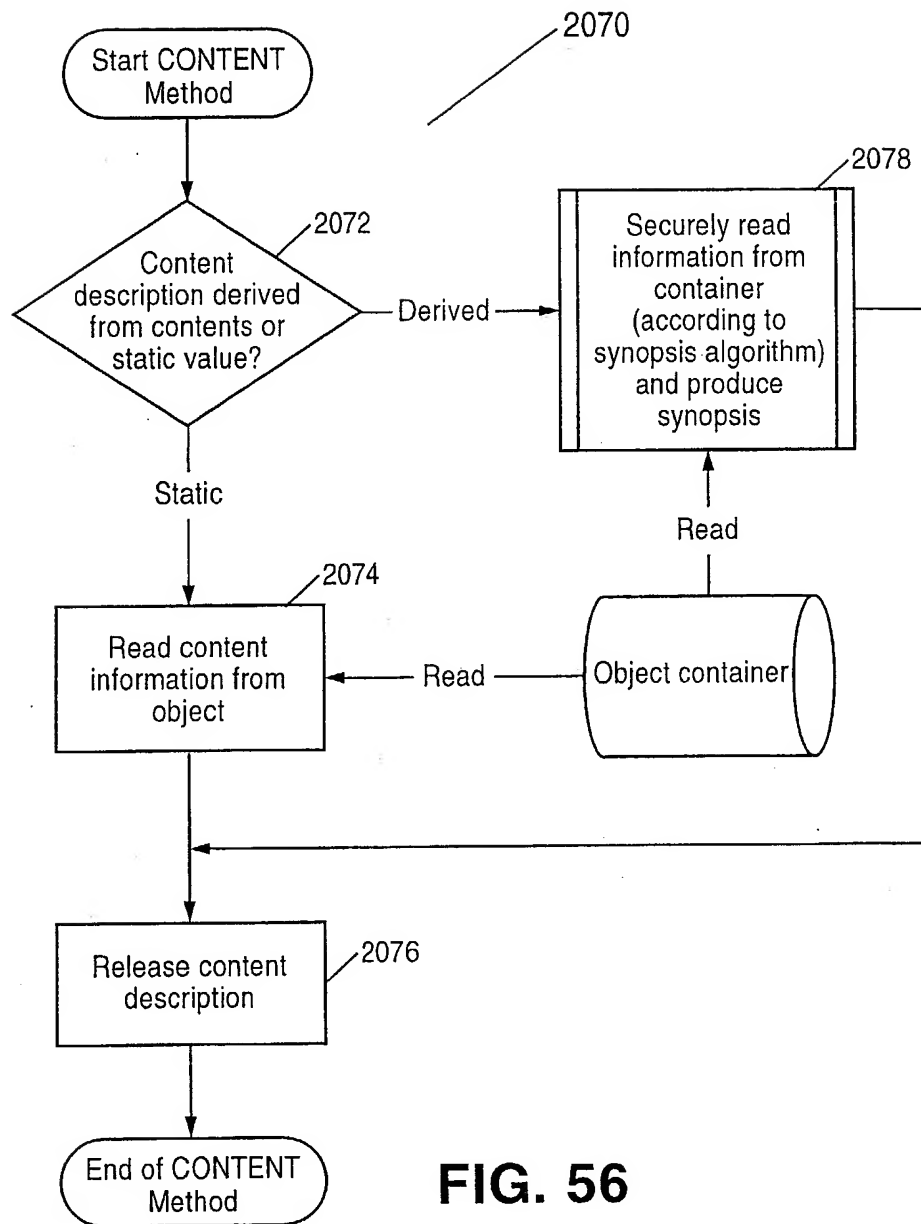
**FIG. 54**



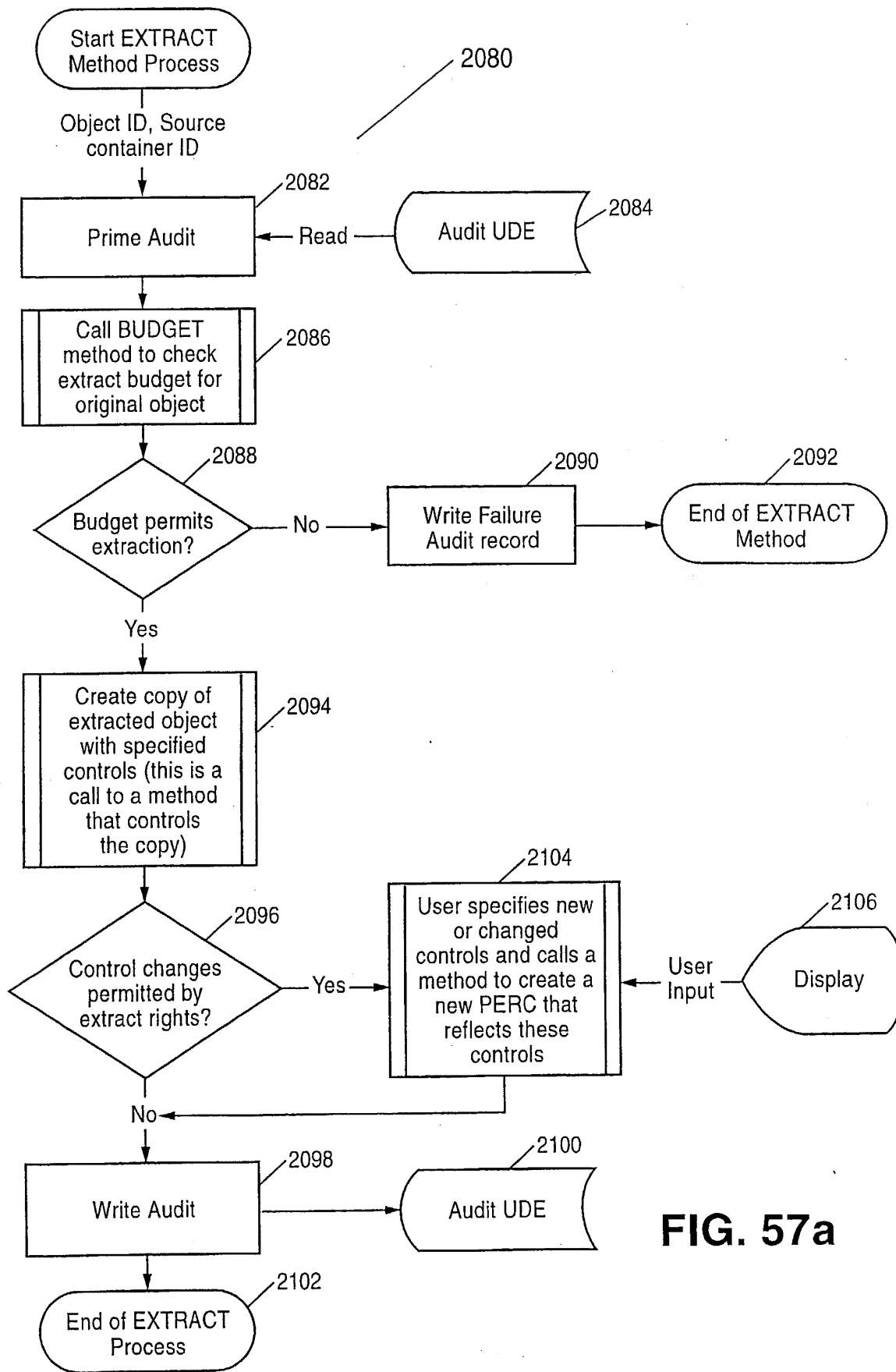
**FIG. 55a**



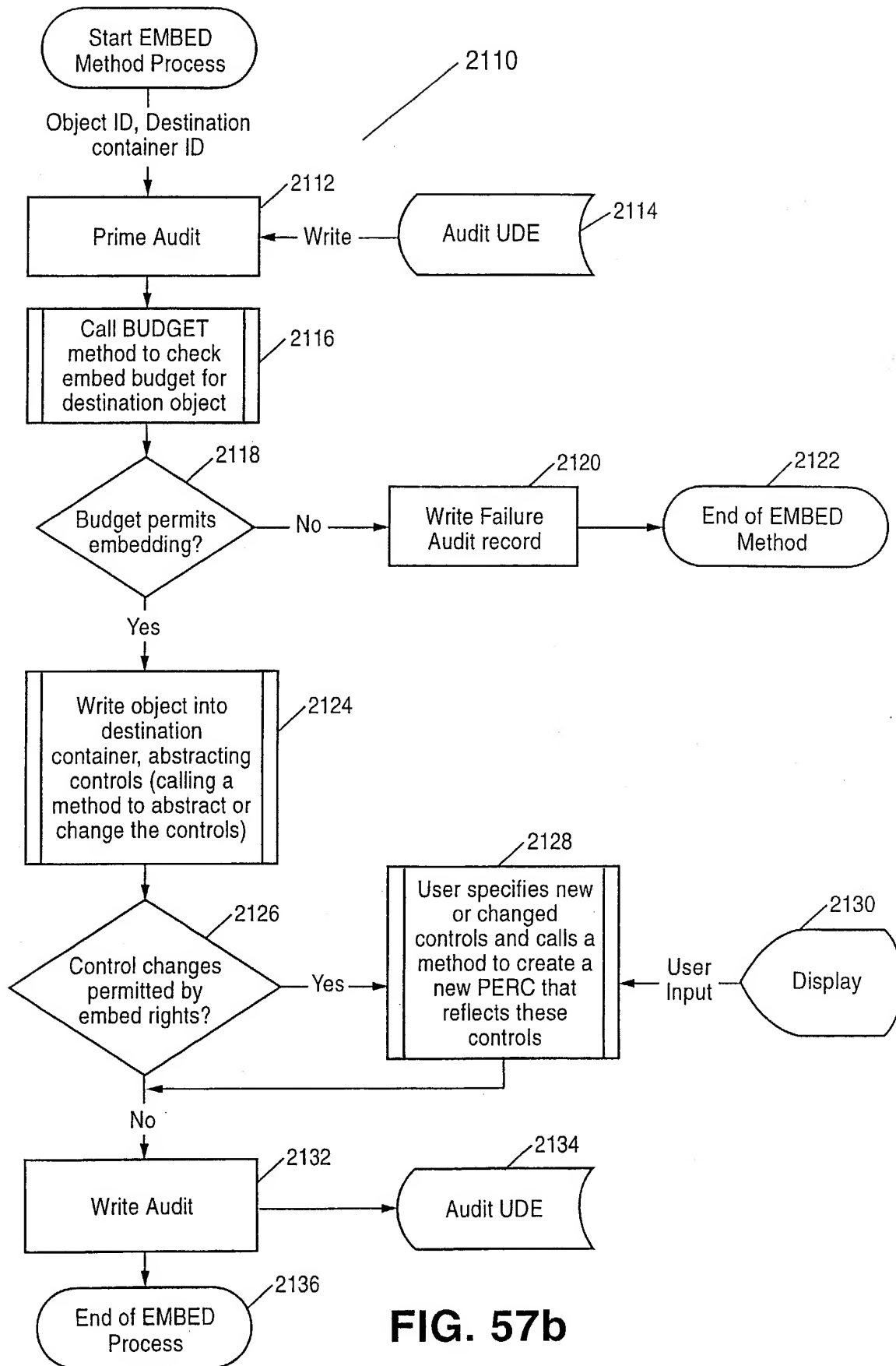
**FIG. 55b**

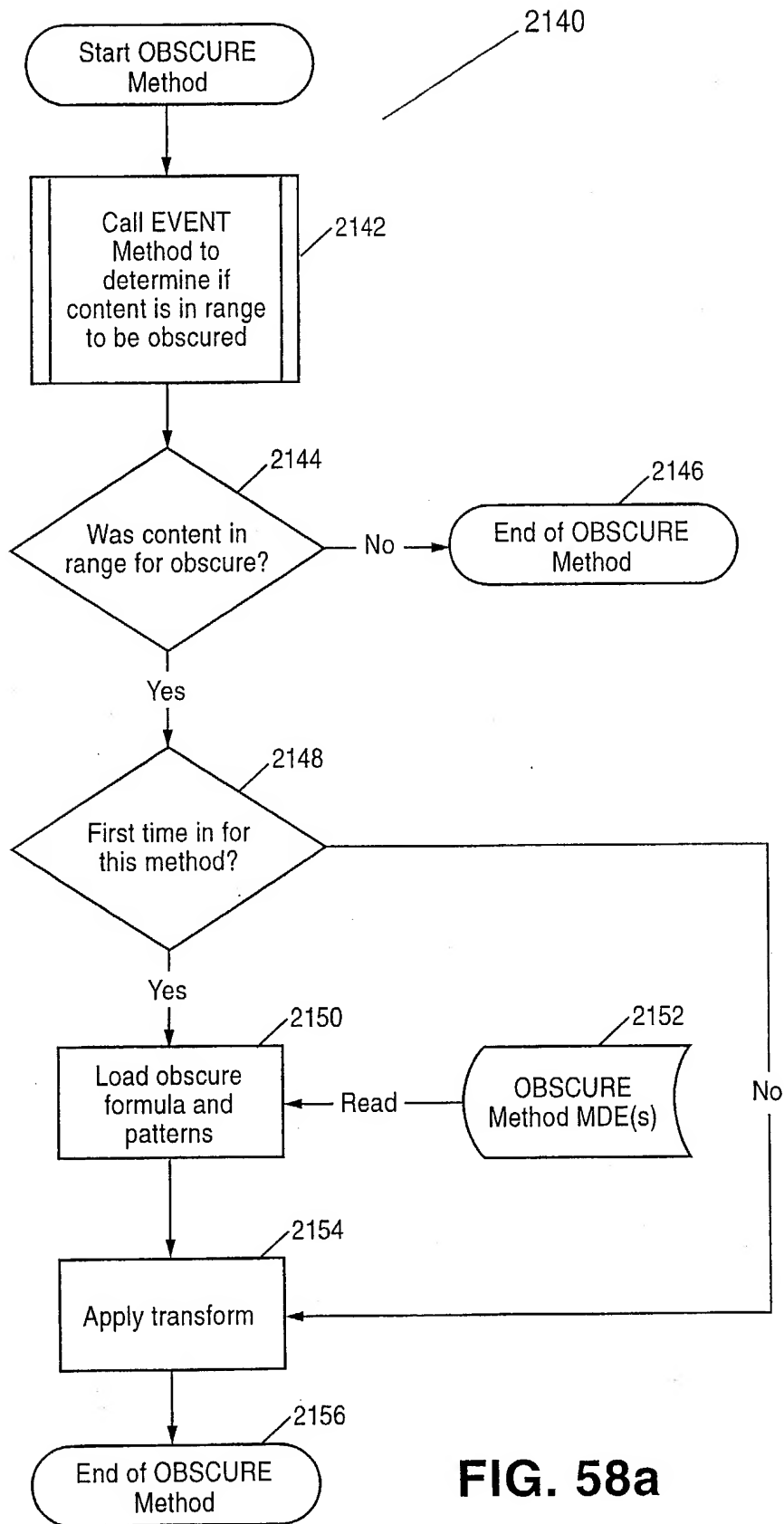


**FIG. 56**

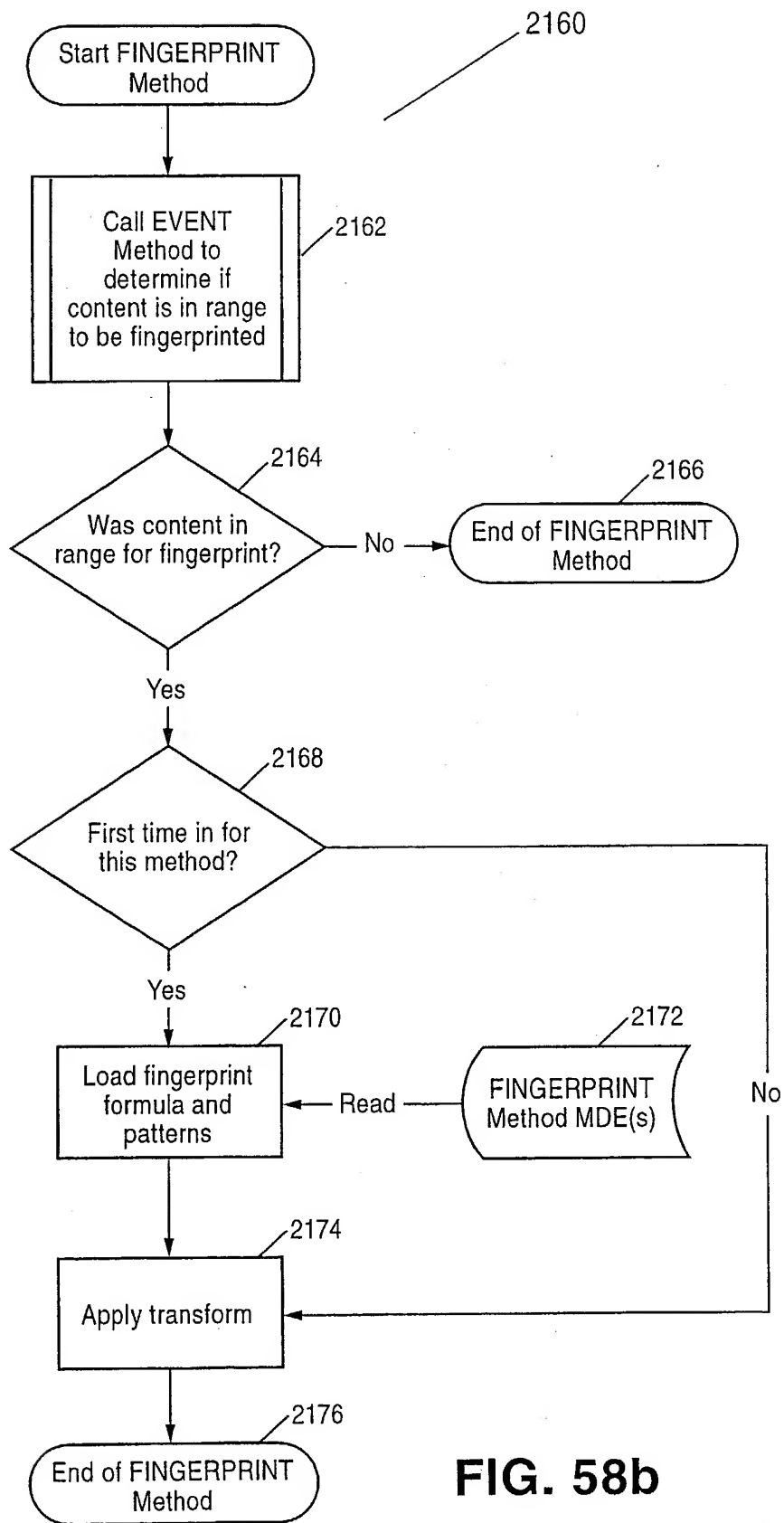


**FIG. 57a**





**FIG. 58a**



**FIG. 58b**

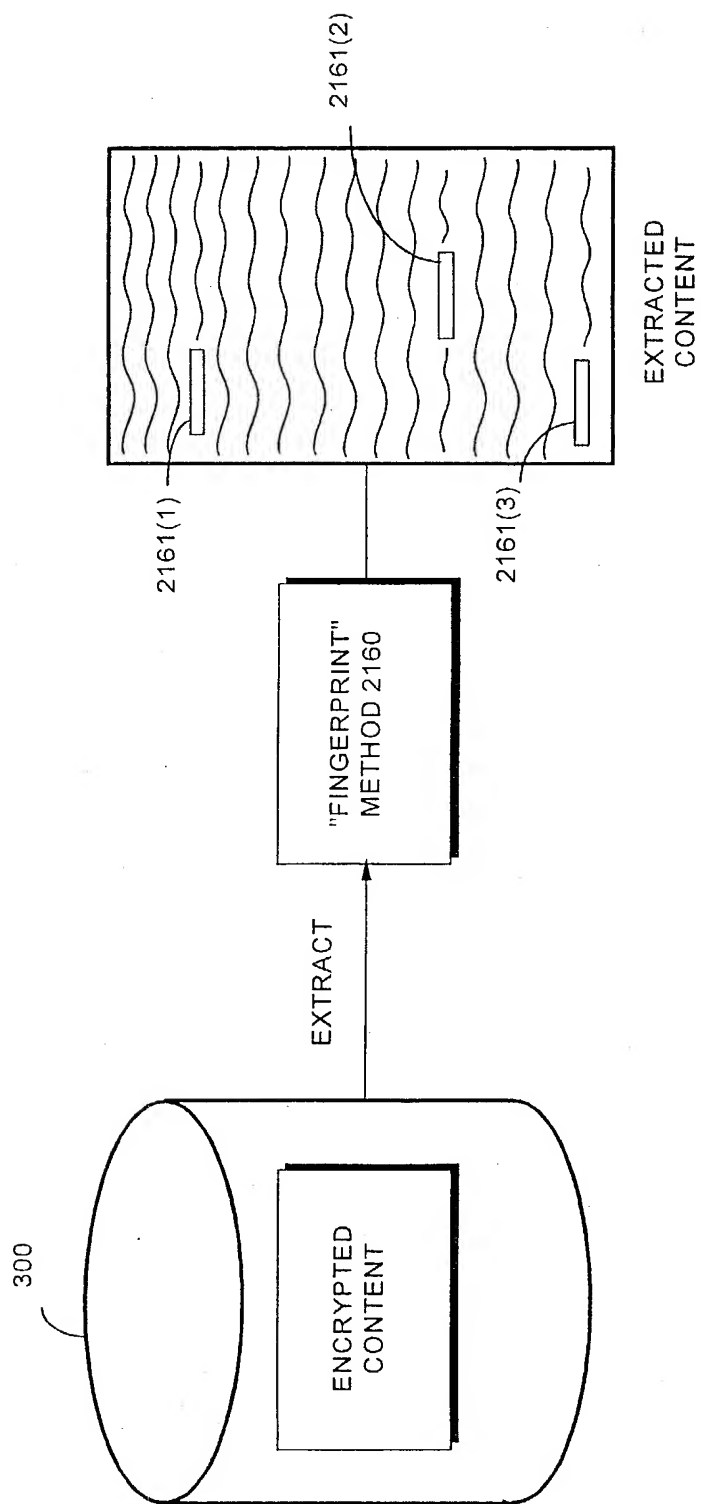
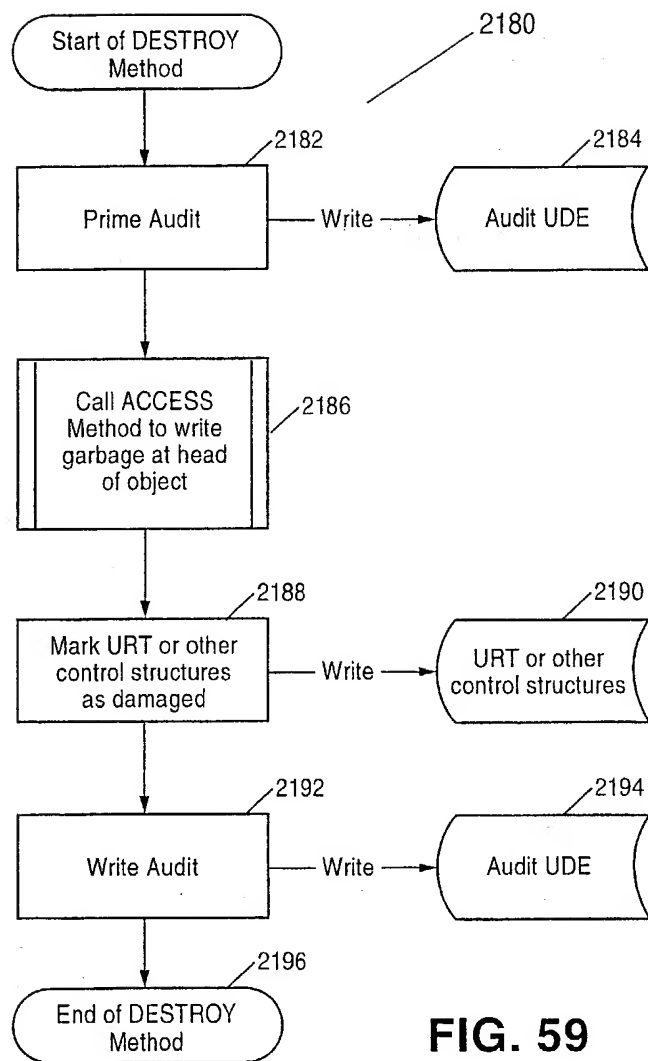
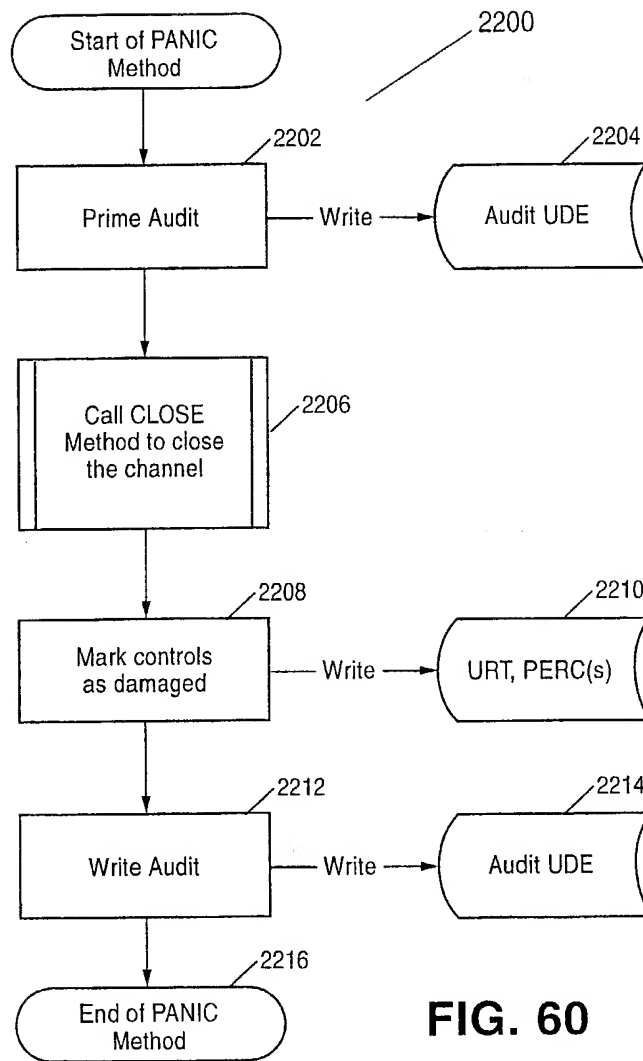


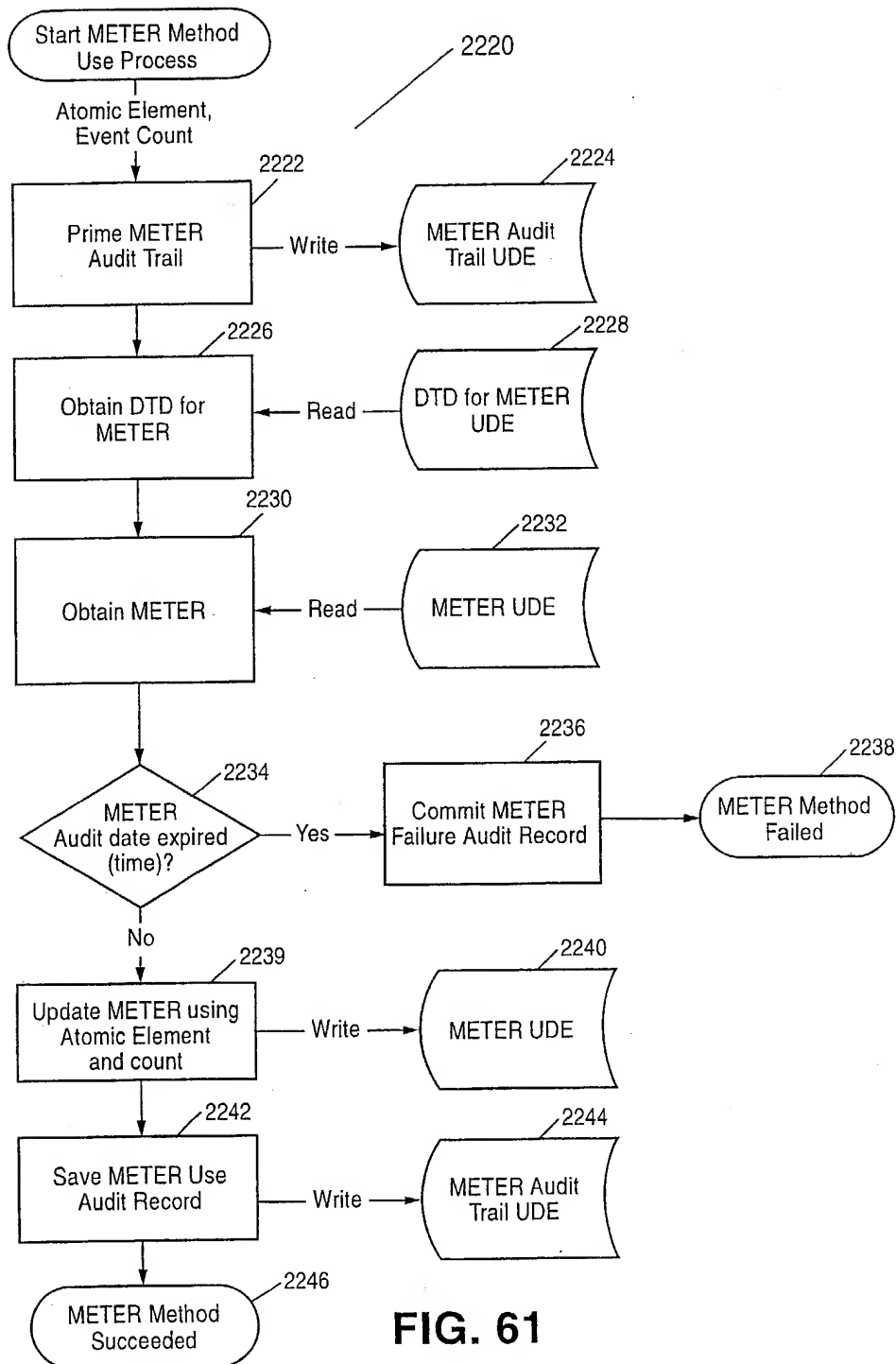
FIG. 58C



**FIG. 59**

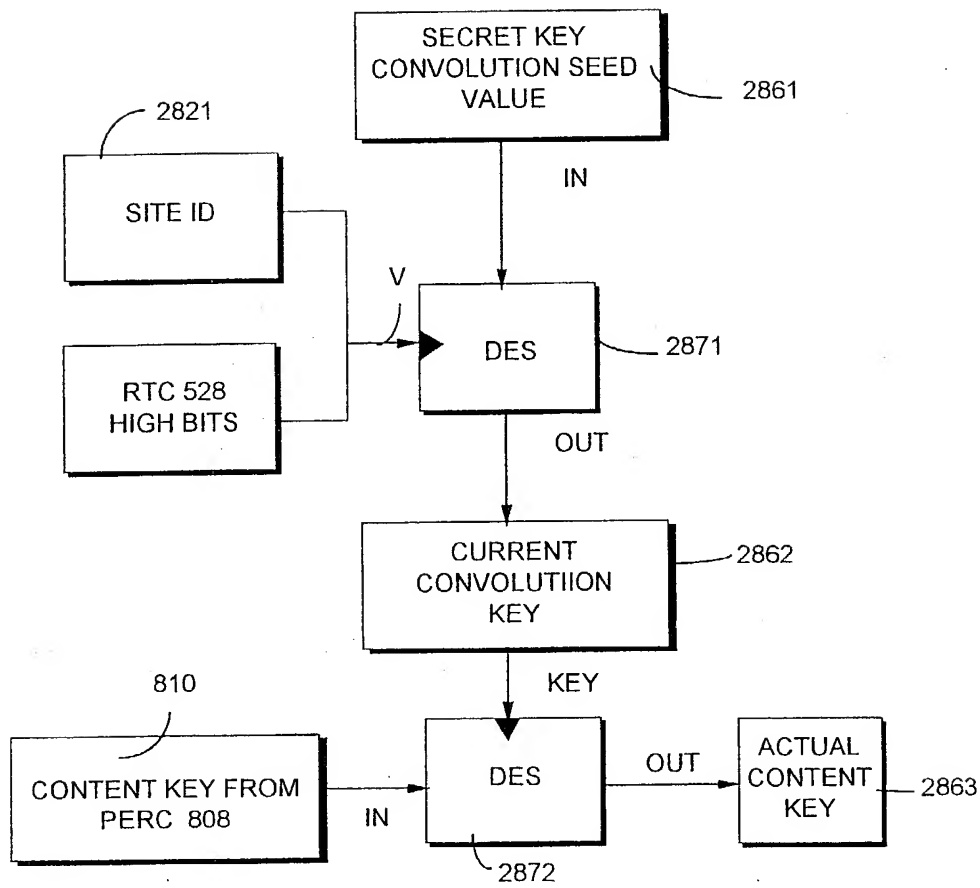


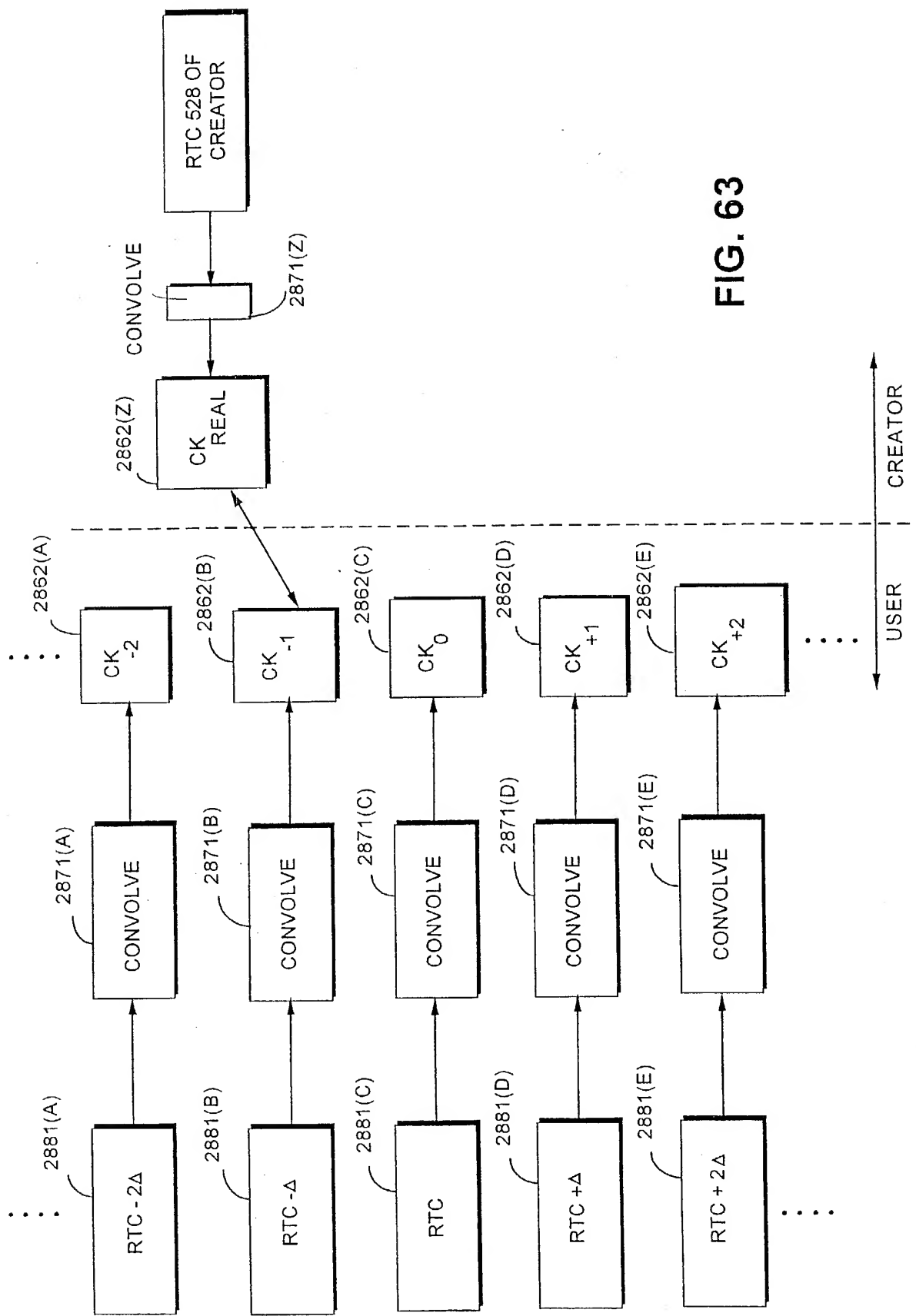
**FIG. 60**



**FIG. 61**

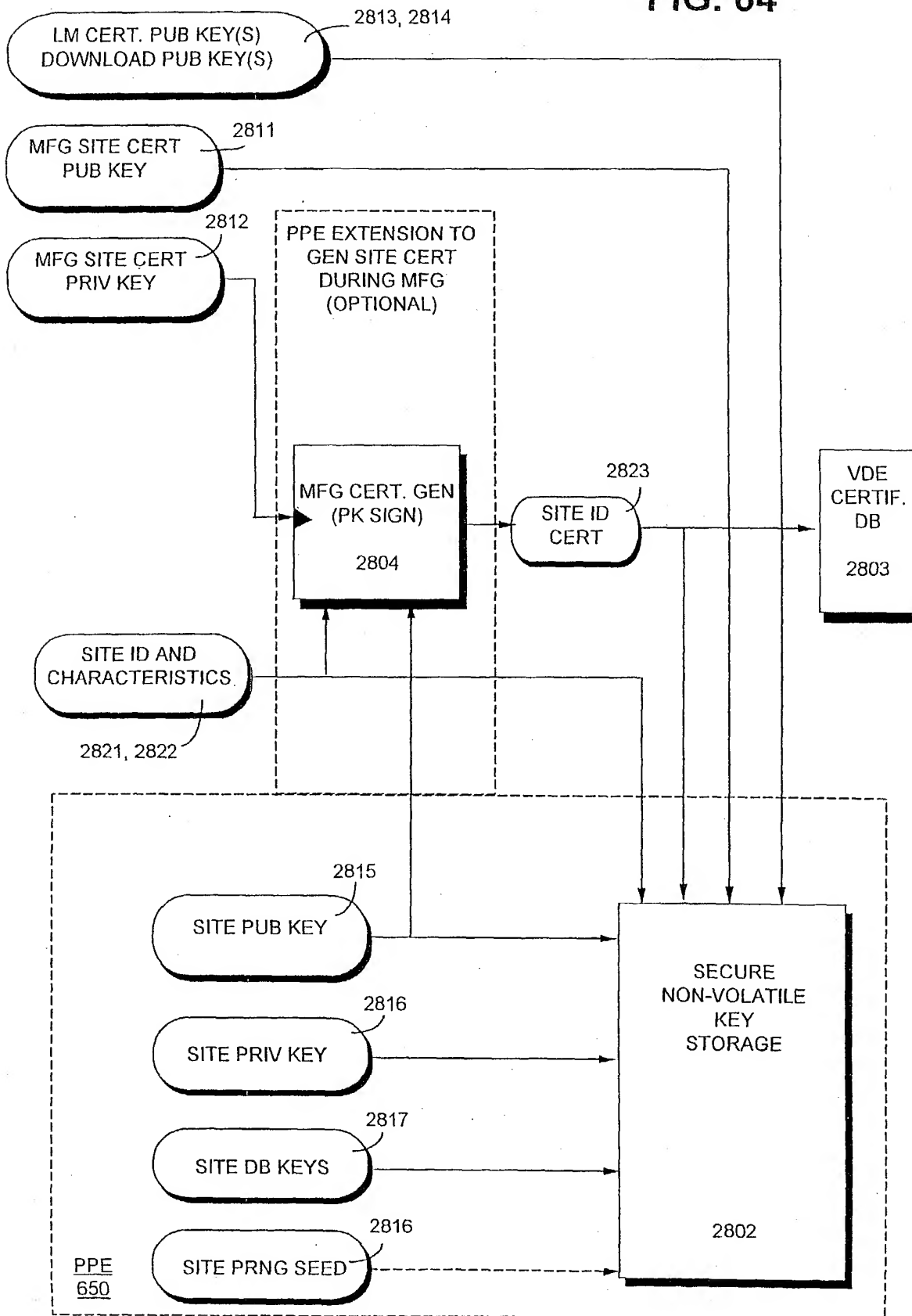
FIG. 62





**FIG. 63**

FIG. 64



**FIG. 65**

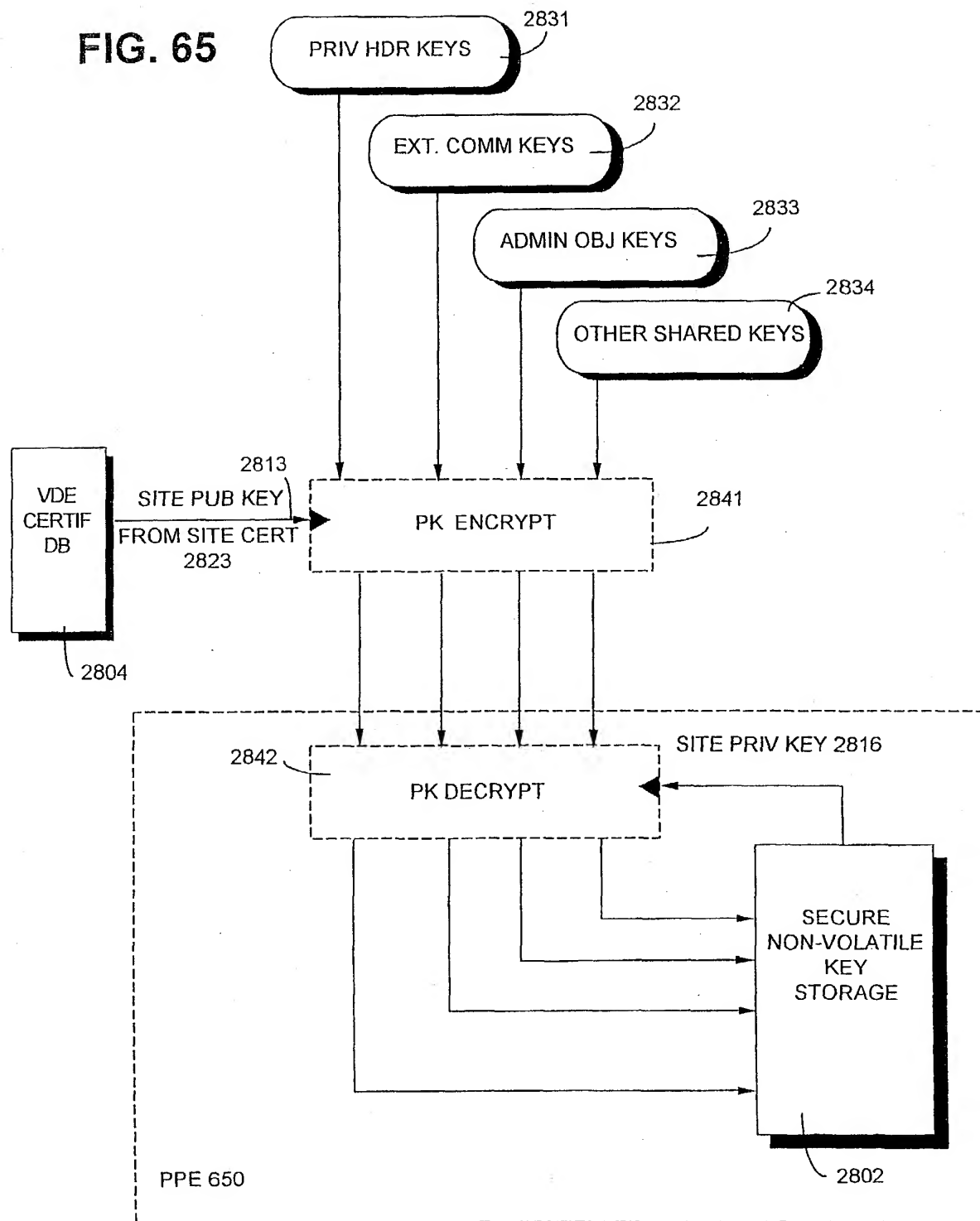
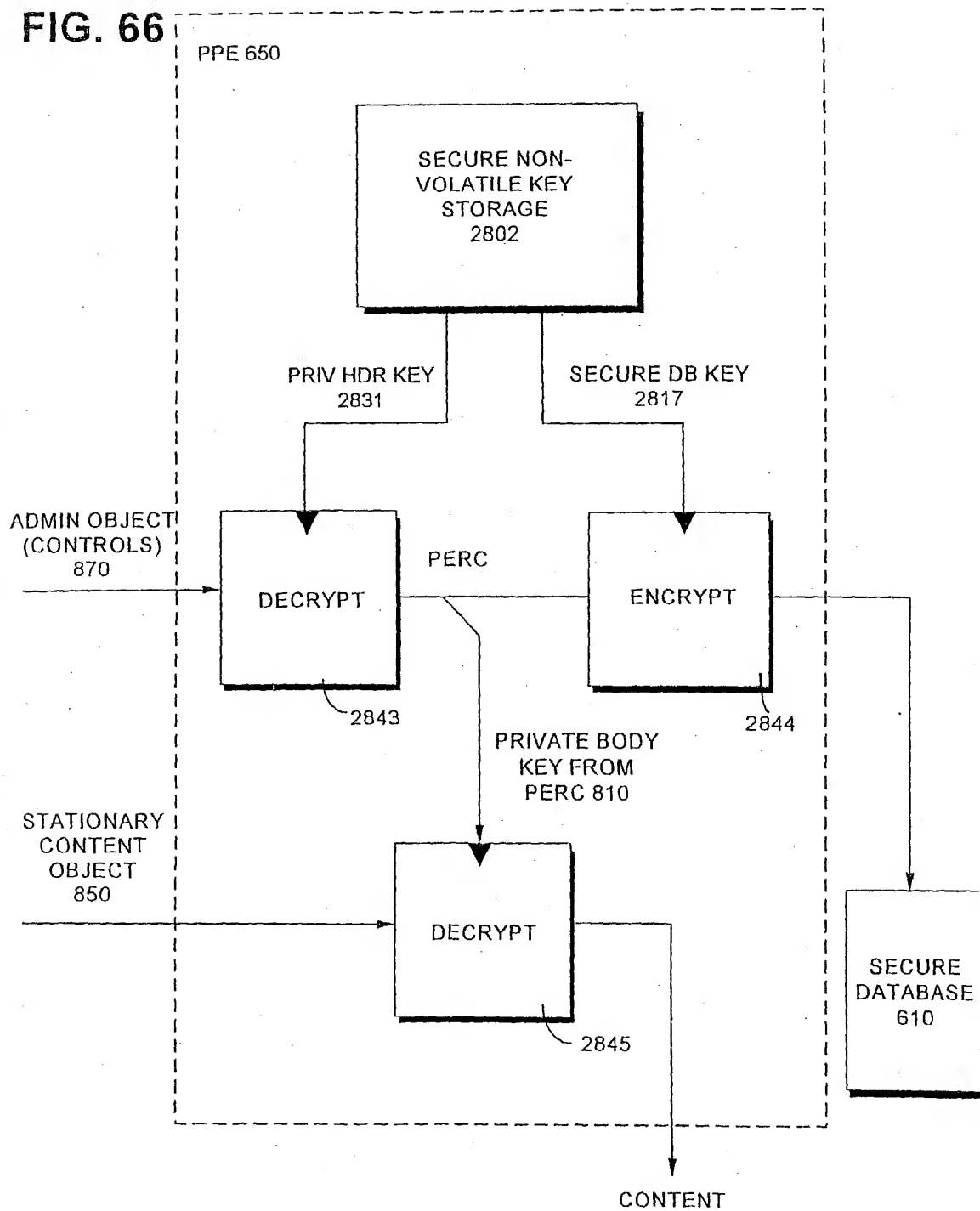


FIG. 66



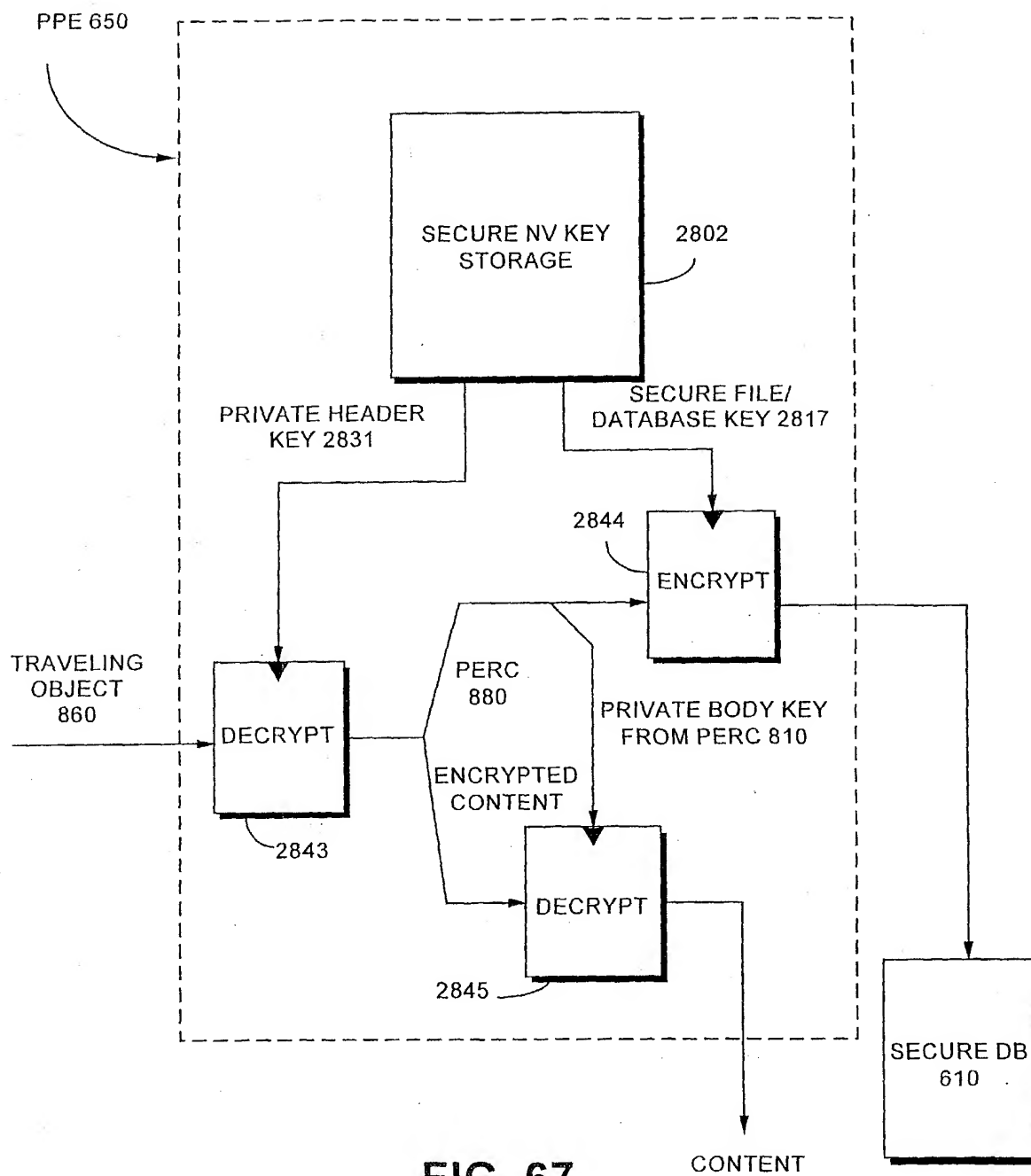


FIG. 67

FIG. 68

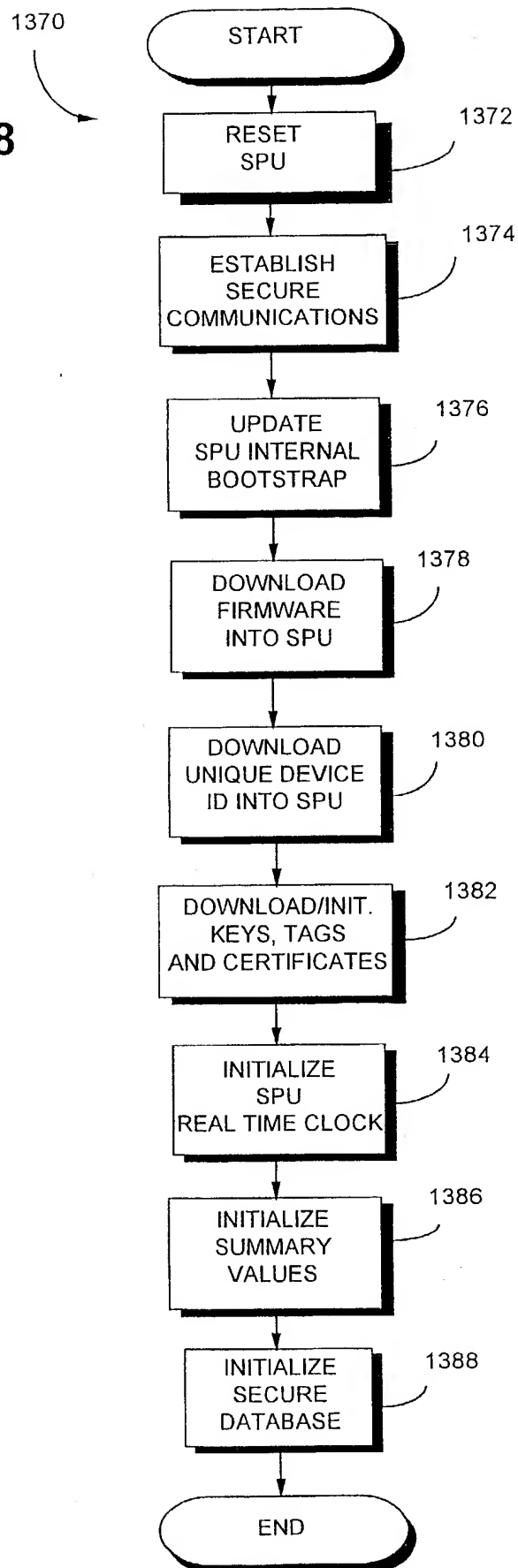
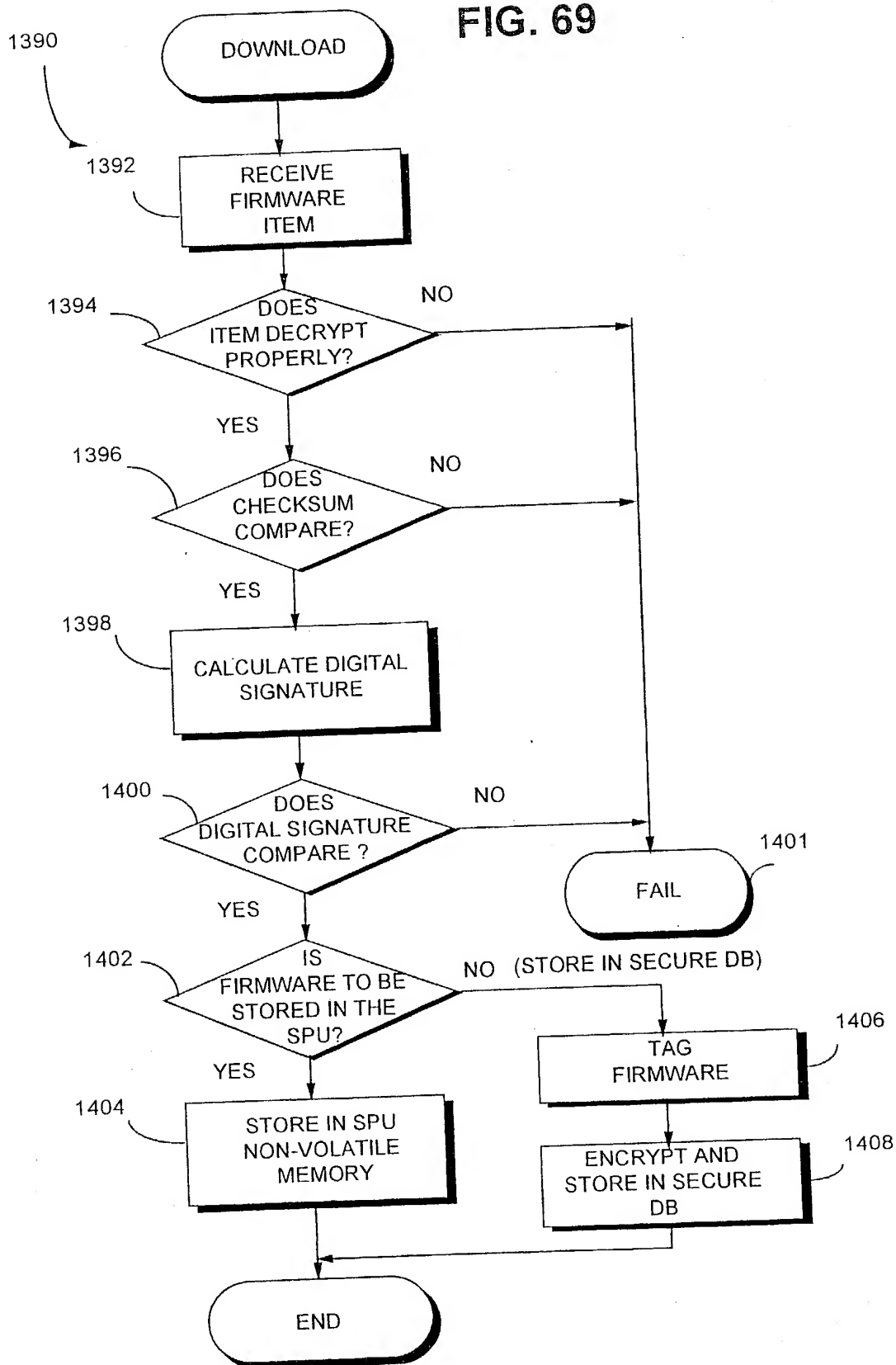
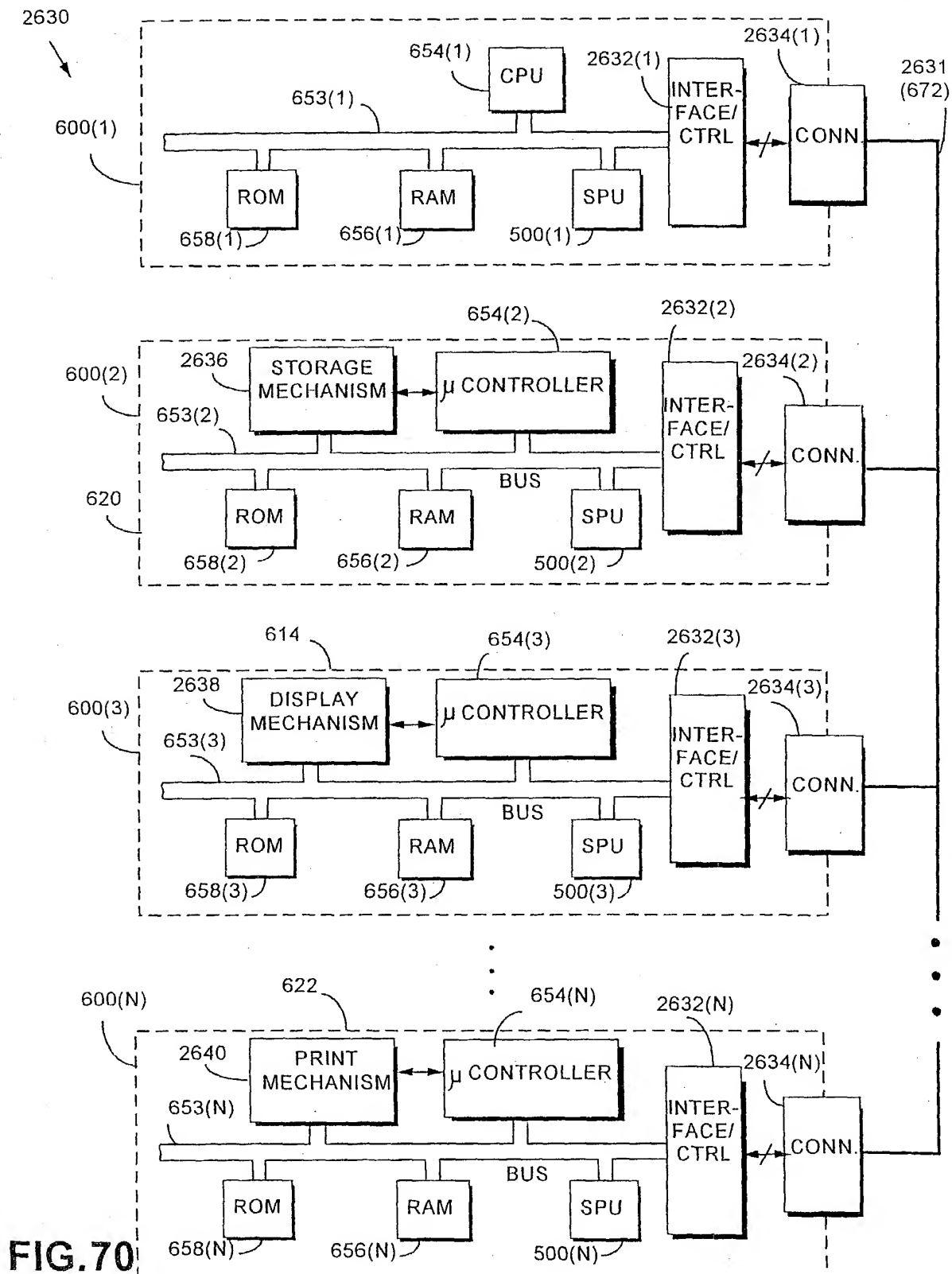


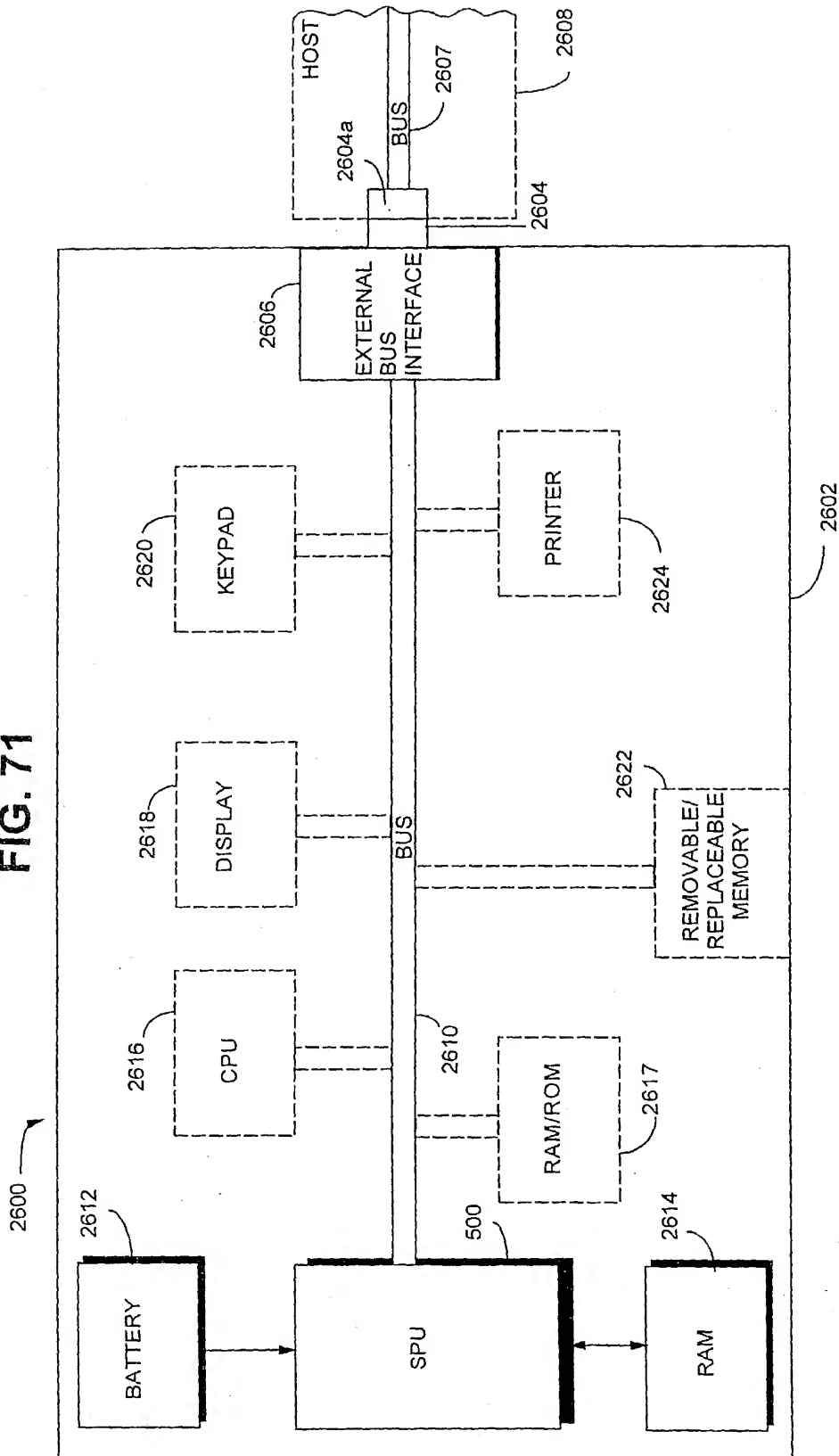
FIG. 69





**FIG. 70**

FIG. 71



LOG IN USER INTERFACE

182

USER NAME: SHEAR, V.

PASSWORD: \* \* \* \* \*

☐ LOGIN AT STARTUP

LOGIN

CANCEL


HELP

FIG. 72A

FIG. 72B

2660

YOU HAVE REQUESTED THESE PROPERTIES:



LOONEY TUNES NEWS!

2662

APPROVE

SUSPEND

2664

PROPERTY INFO

Your Cost: \$7.50

MORE OPTIONS

FIG. 72C

**SET LIMITS:**

SESSION DOLLAR LIMIT: \$  2666

TRANSACTION DOLLAR LIMIT: \$  2668

TIME LIMIT (IN MINUTES):  2670

UNIT LIMIT:  2672

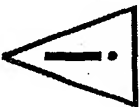
2674 OK

CANCEL

HELP!

2674

FIG. 72D



**YOU HAVE REQUESTED THESE PROPERTIES:**

**CANCEL**

**SUSPEND**

**APPROVE**


**SUSPEND**

**LOONEY TUNE NEWS!**

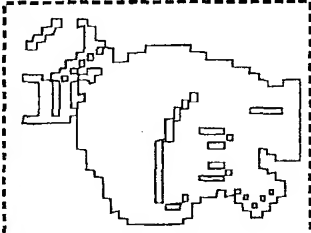
---













**PROPERTY INFO**

**YOUR COST : \$7.50**

**More Options** 

**Show Thumbnail**



PROPERTY:	SIZE:	PUBLISHER:	AMOUNT:	UNITS:	COST/UNIT:	TYPE:	USE?:	LINKS:	HIST:
CHUCK JONES BIOGRA...	256KB	WARNER NEW MEDIA	64	KBYTE	\$1.25	PREVIEW	✓		
▼ BUGS BUNNY.JPE...	1MB	WARNER NEW MEDIA	1	RECORD	\$5.00	DISPLAY	✓		
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	10	RECORD	\$3.50	DISPLAY			
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	25	RECORD	\$2.50	DISPLAY			
FRIZ FRELENG BIOGRA...	256KB	WARNER NEW MEDIA	120	SECTOR	\$5.00	PRINT			
TEX AVERY BIOGRAP...	256KB	WARNER NEW MEDIA	50	PERCENT	\$2.50	COPY			
► DUCKI RABBITI DU...	64MB	WARNER NEW MEDIA	7.0	MINUTE	\$7.50	COPY-PRO			
MEL BLANC BIOGRAPH...	256KB	WARNER NEW MEDIA	1	SPECIAL	\$25.25	INSTALL			
LOONEY TUNES DATAB...	600MB	WARNER NEW MEDIA	1	OBJECT	\$2000.00	ALL			

**SET LIMITS...**

**SHOW BUDGETS**

**ACQUIRE BUDGET...**

**HISTORY...**

**TRANSFER...**

**PREFERENCES...**

**FEEDBACK...**

**HELP!**

# FIG. 73

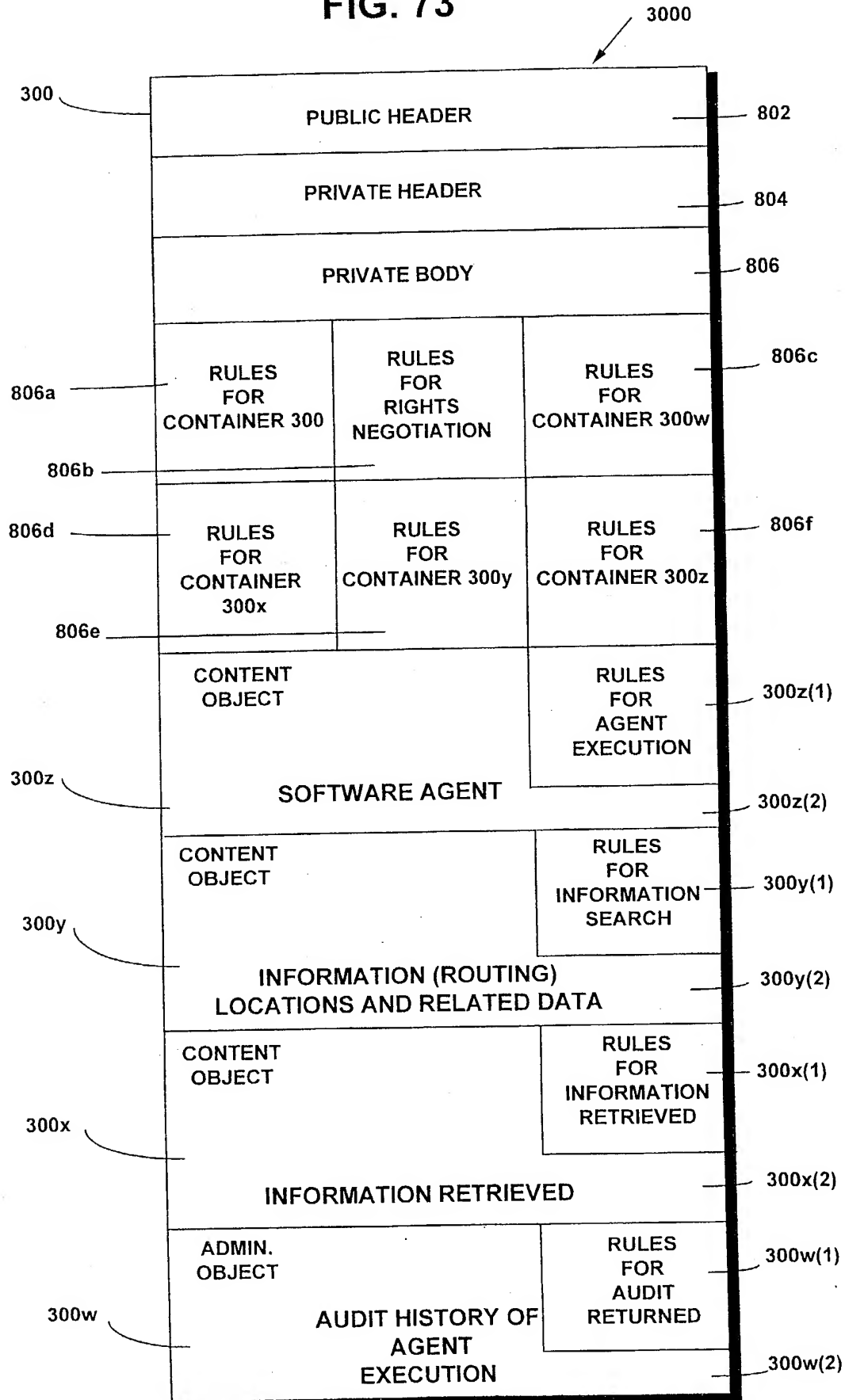
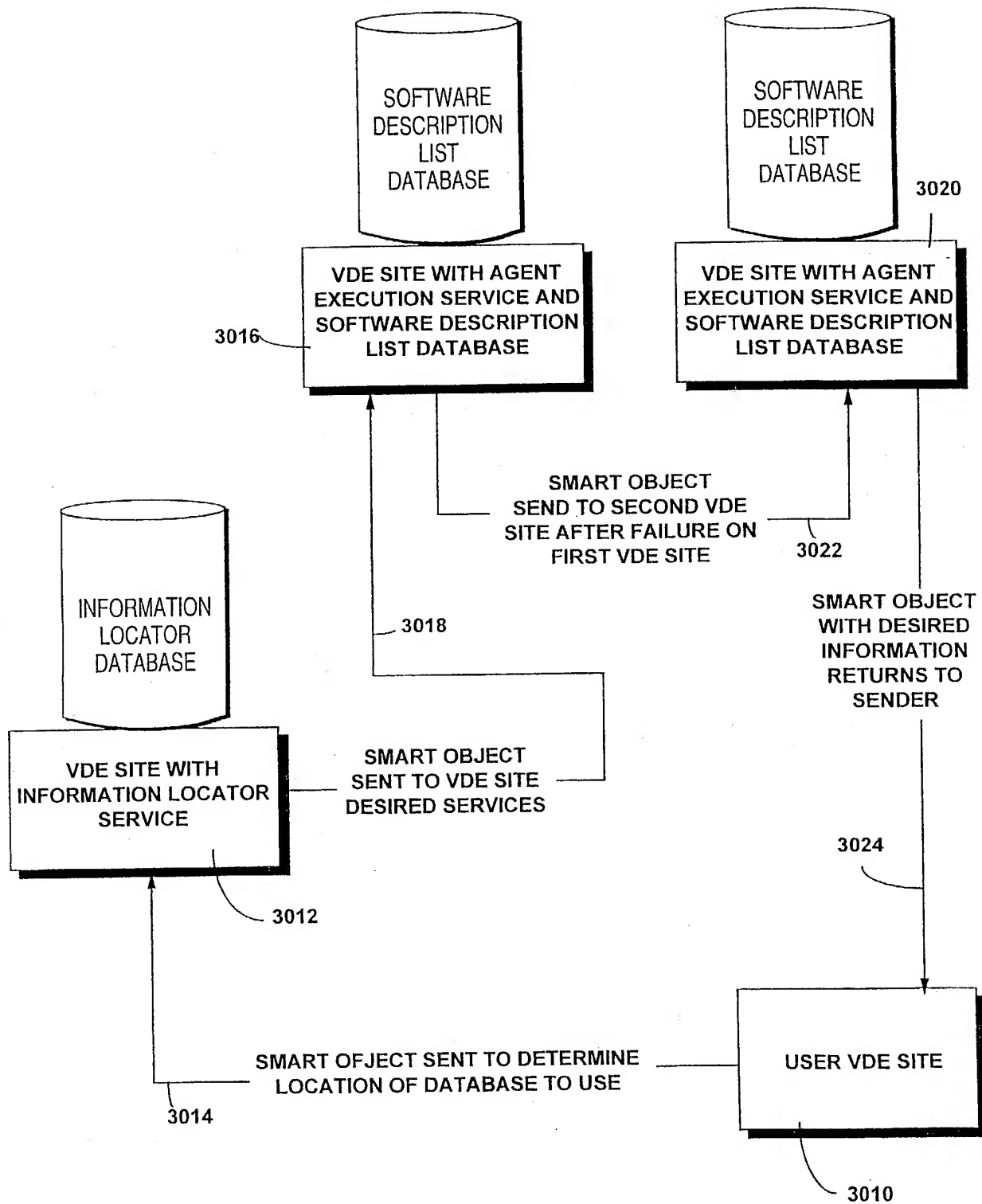
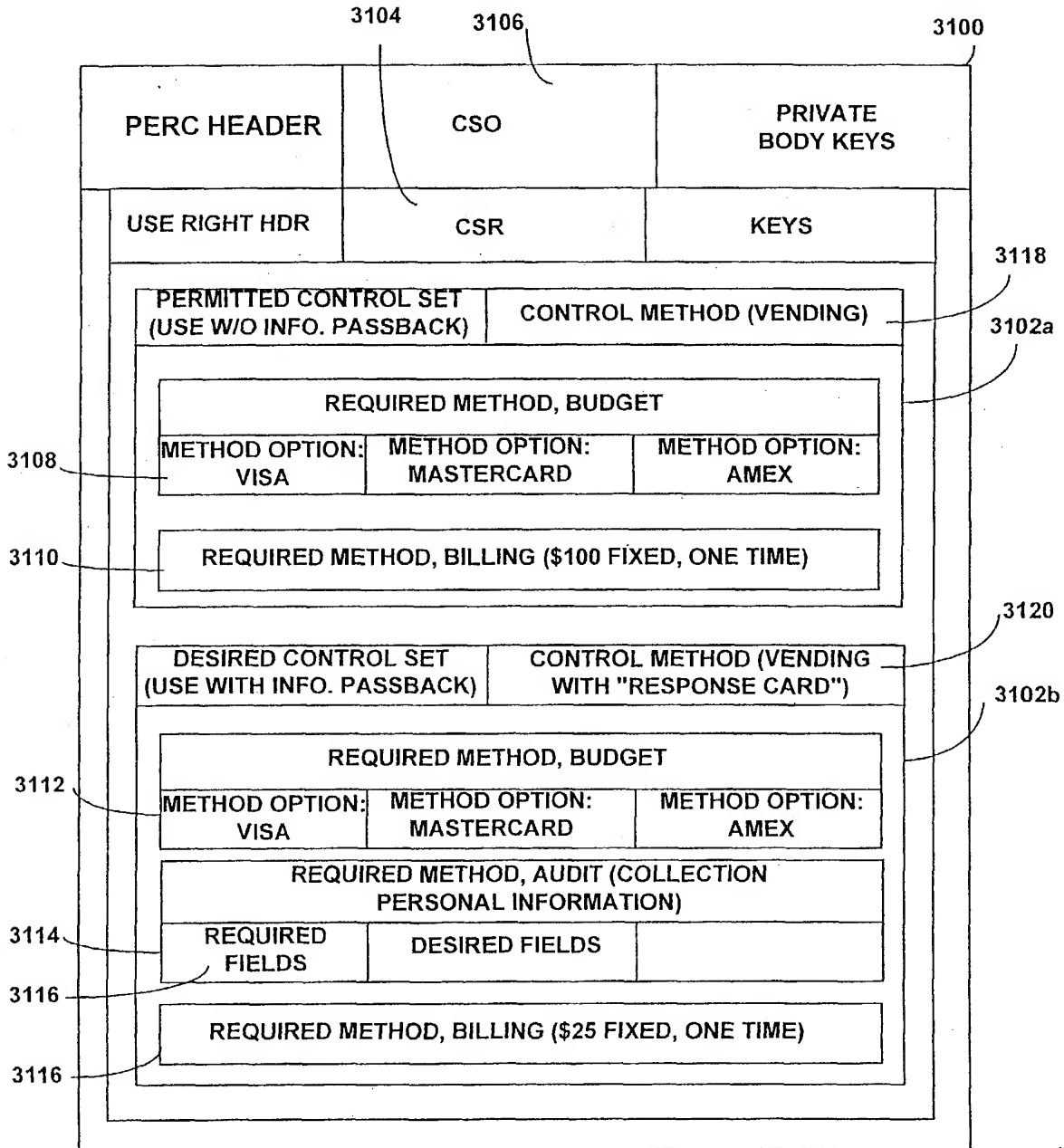


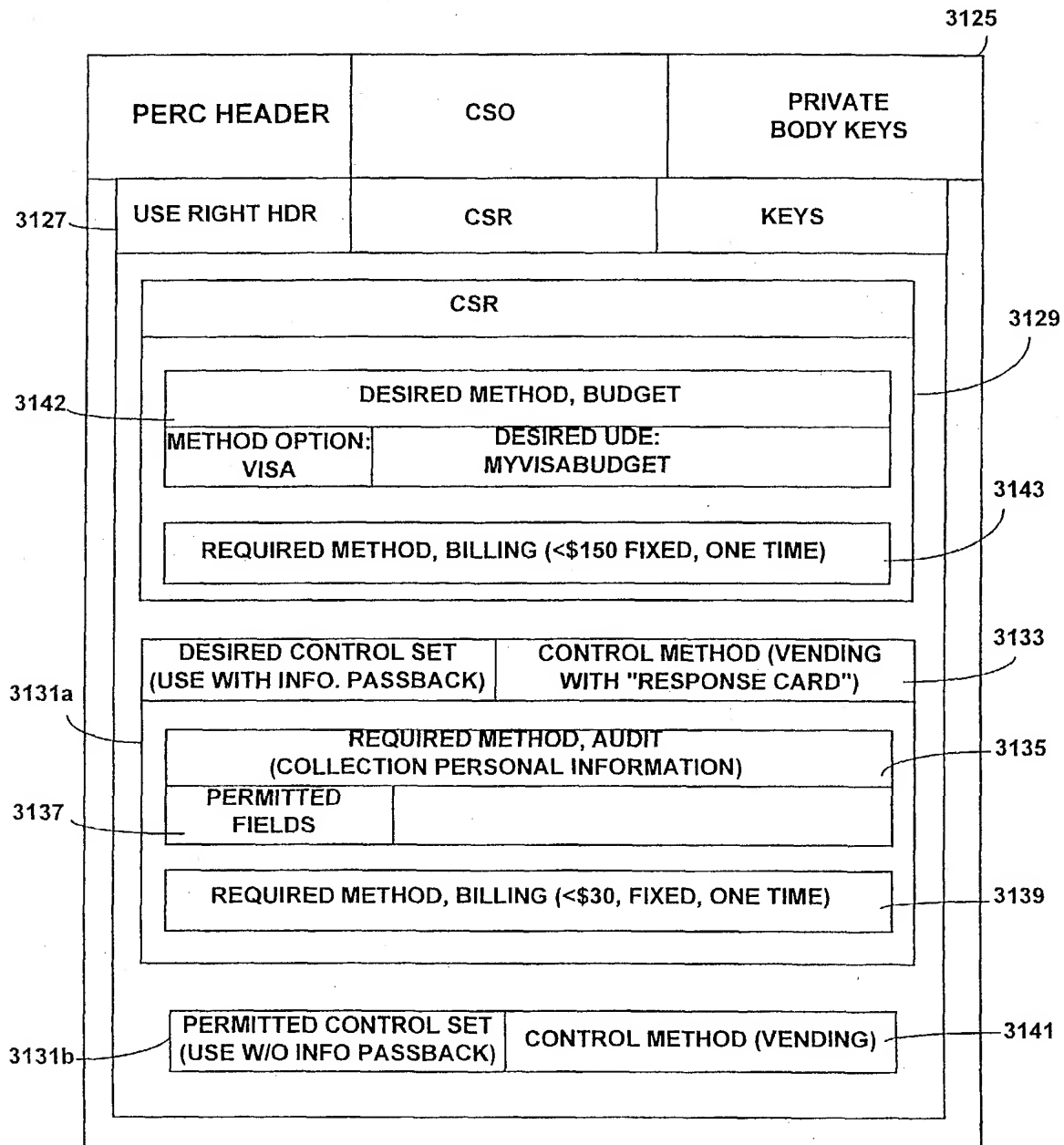
FIG. 74



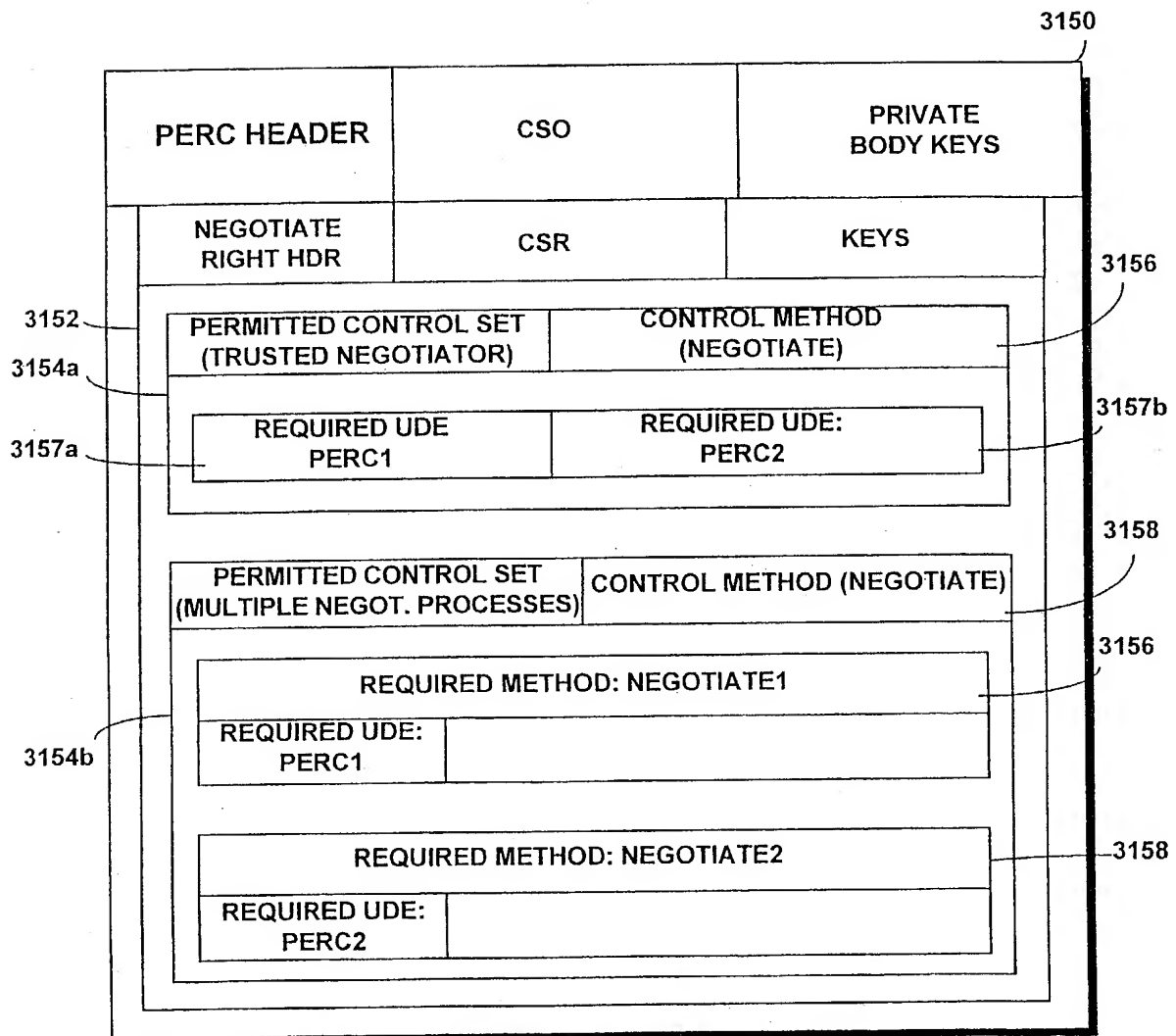
# FIG. 75A



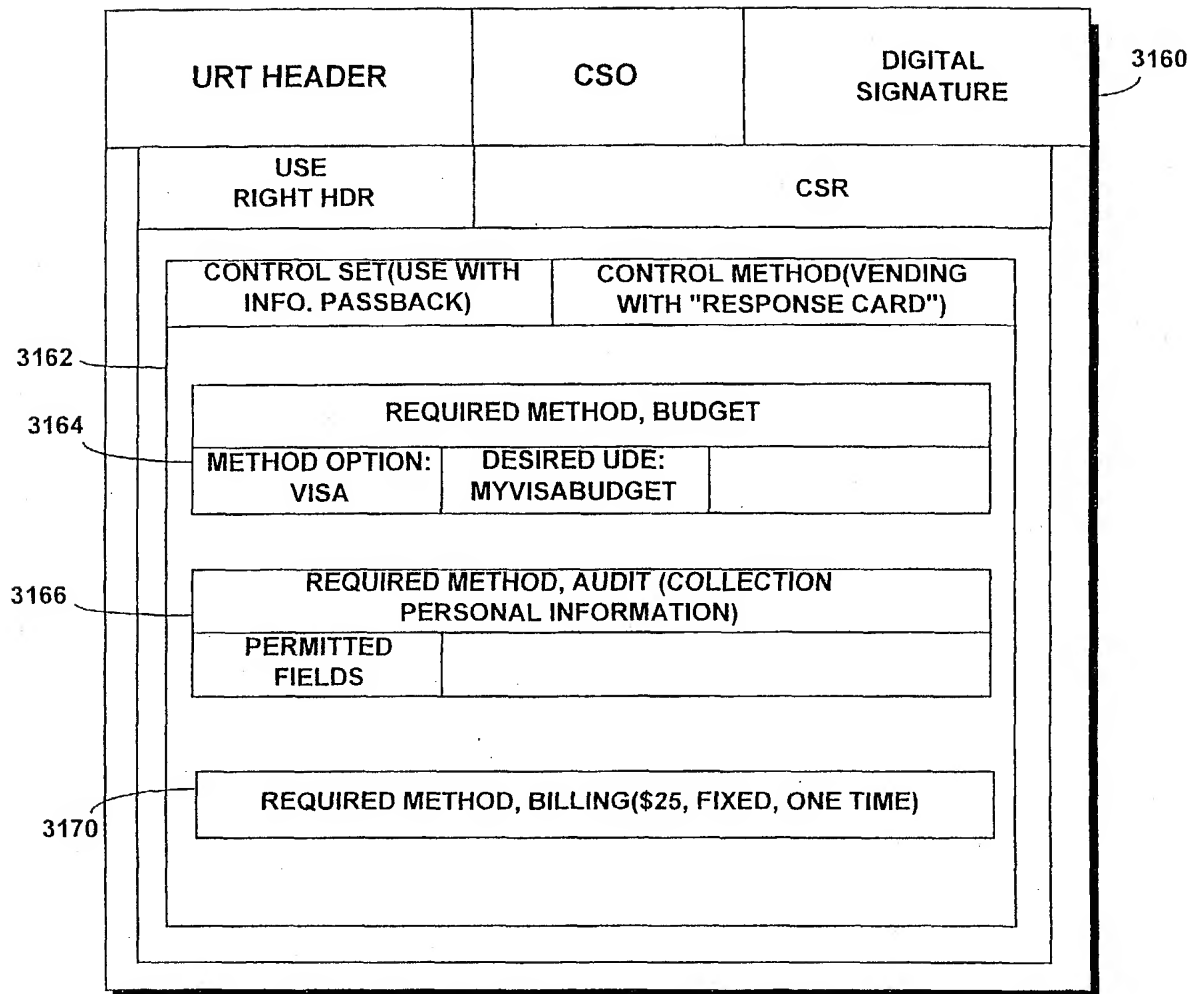
# FIG. 75B



# FIG. 75C



**FIG. 75D**



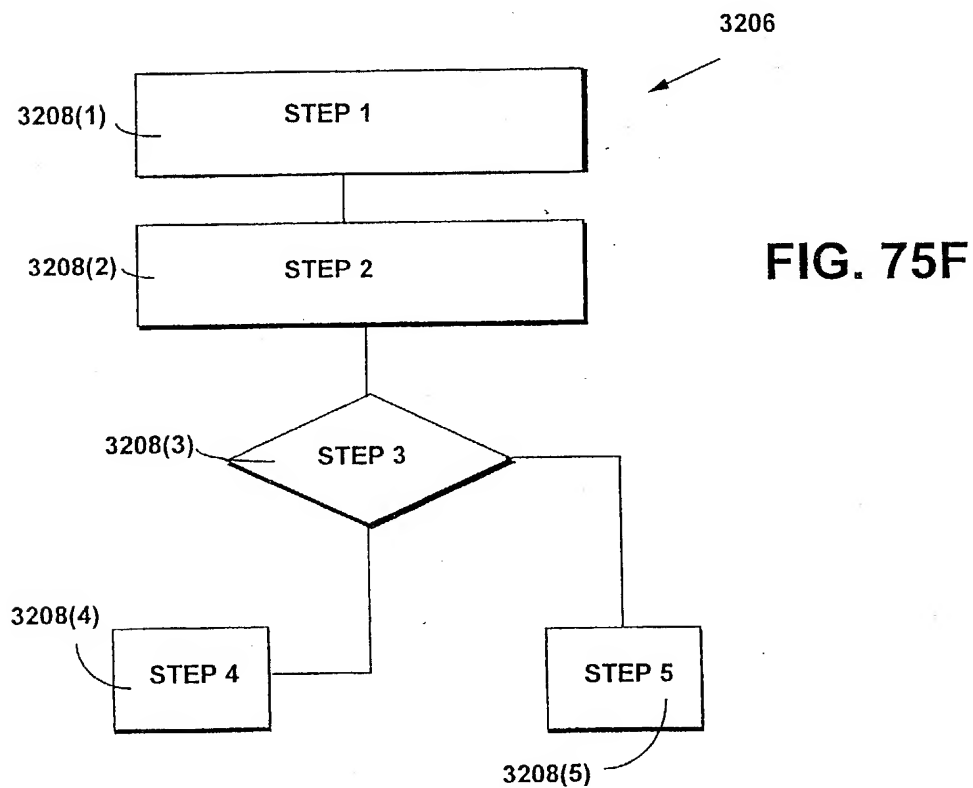
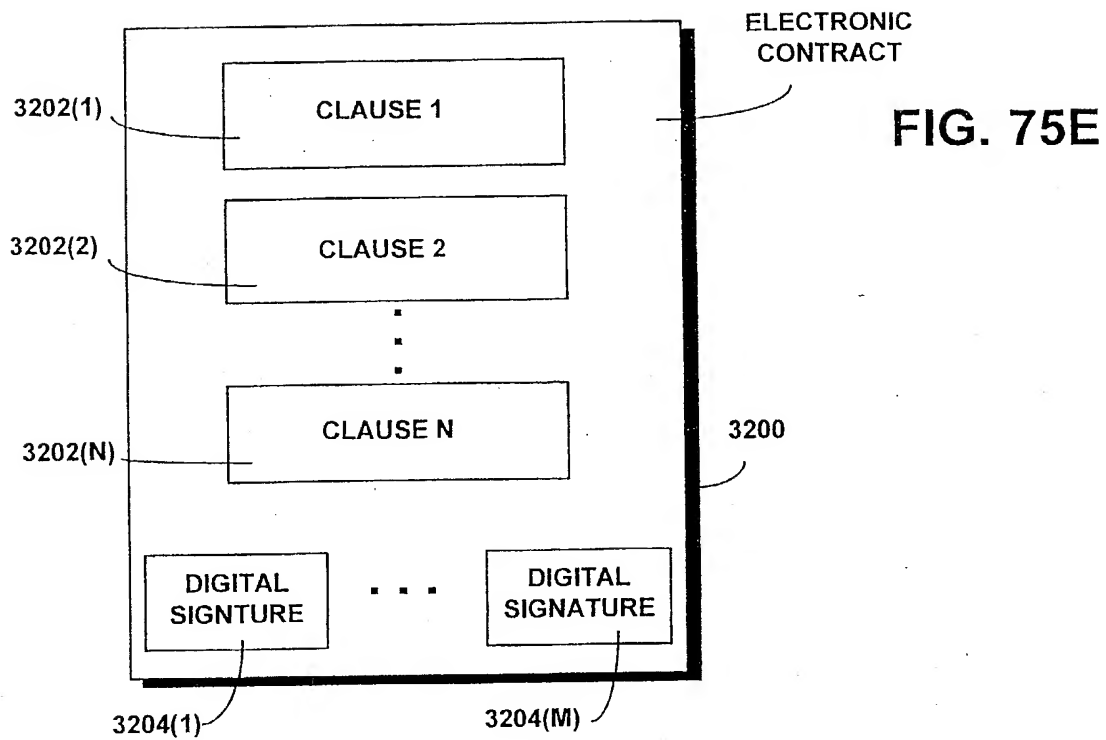


FIG. 76A

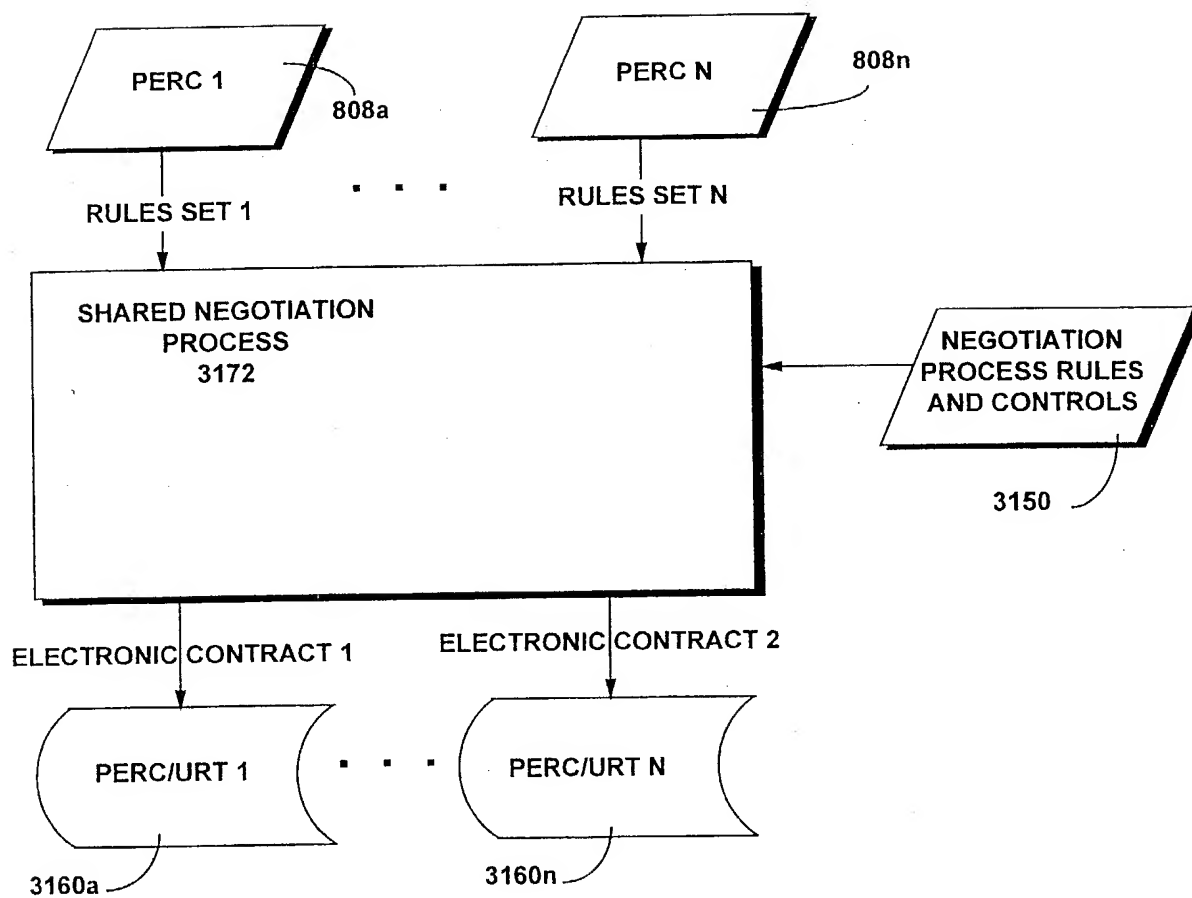


FIG. 76B

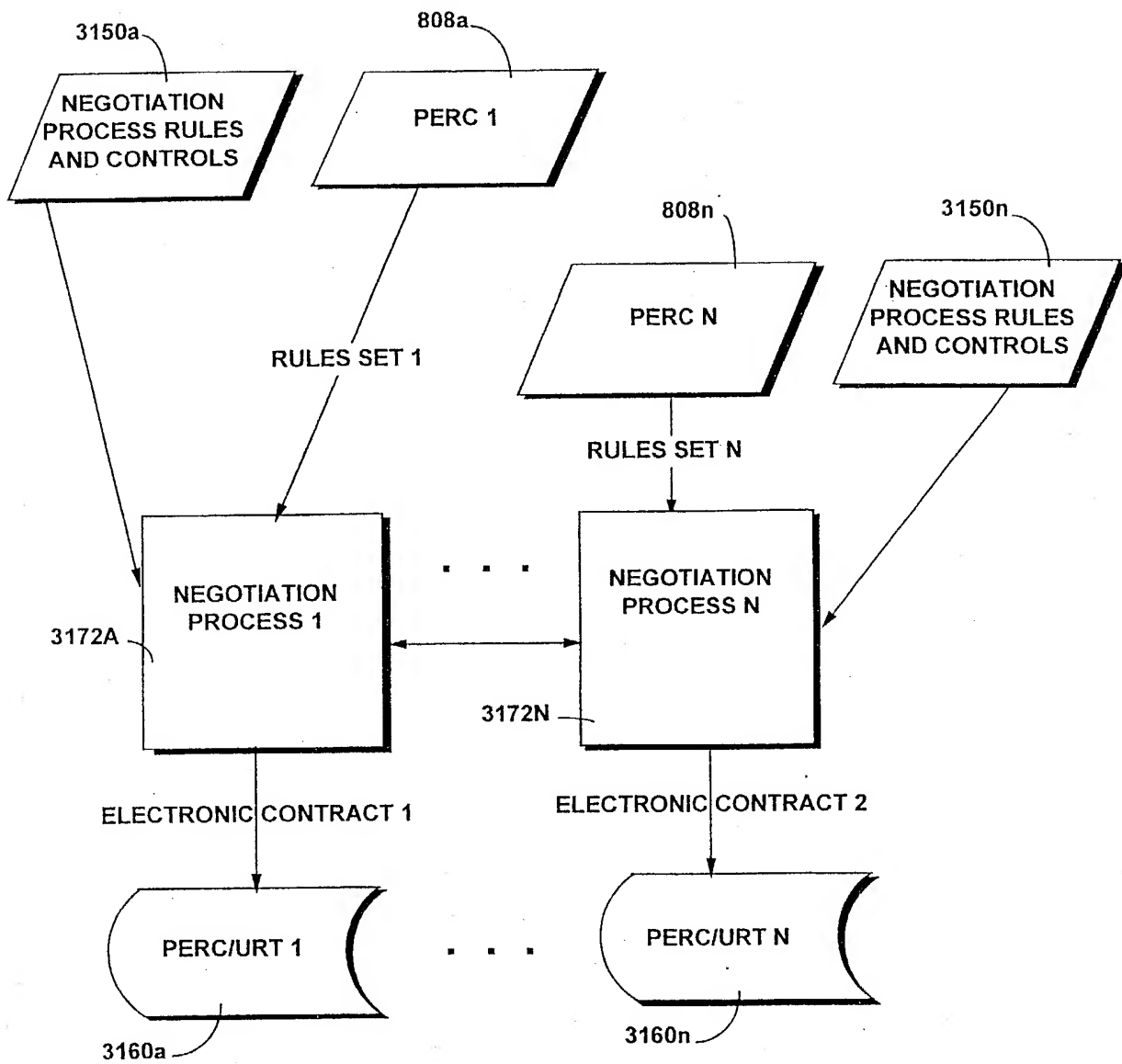
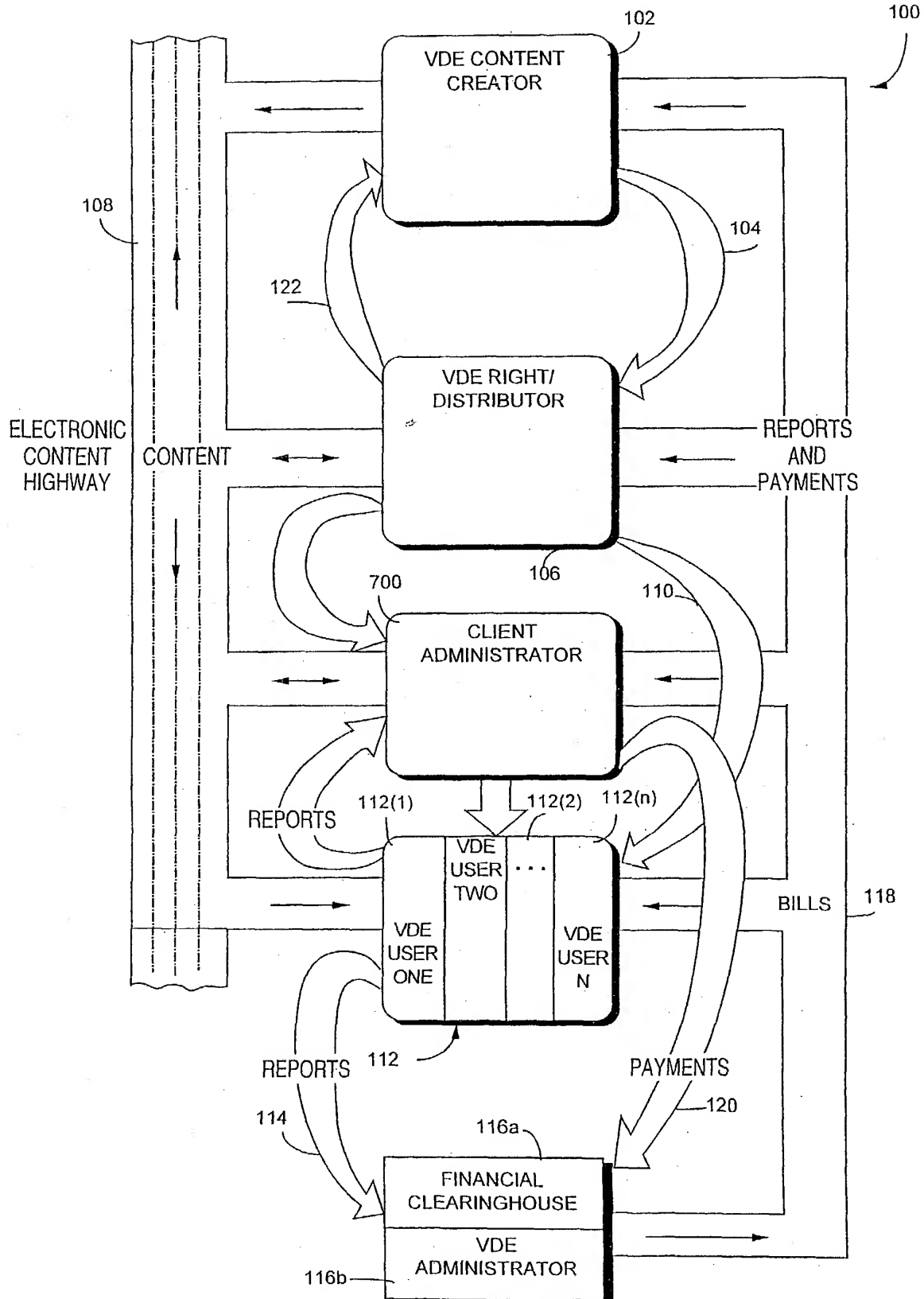
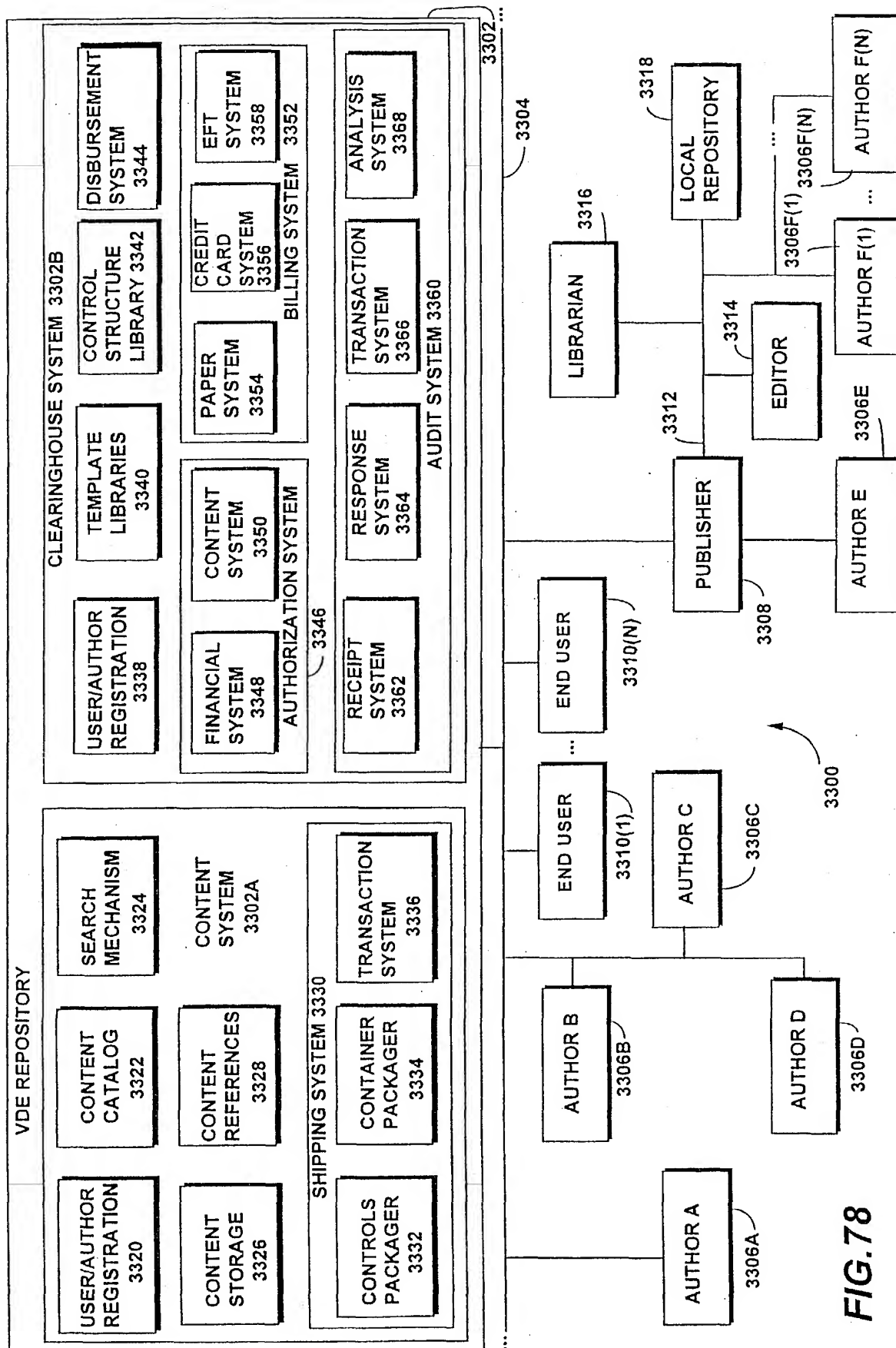


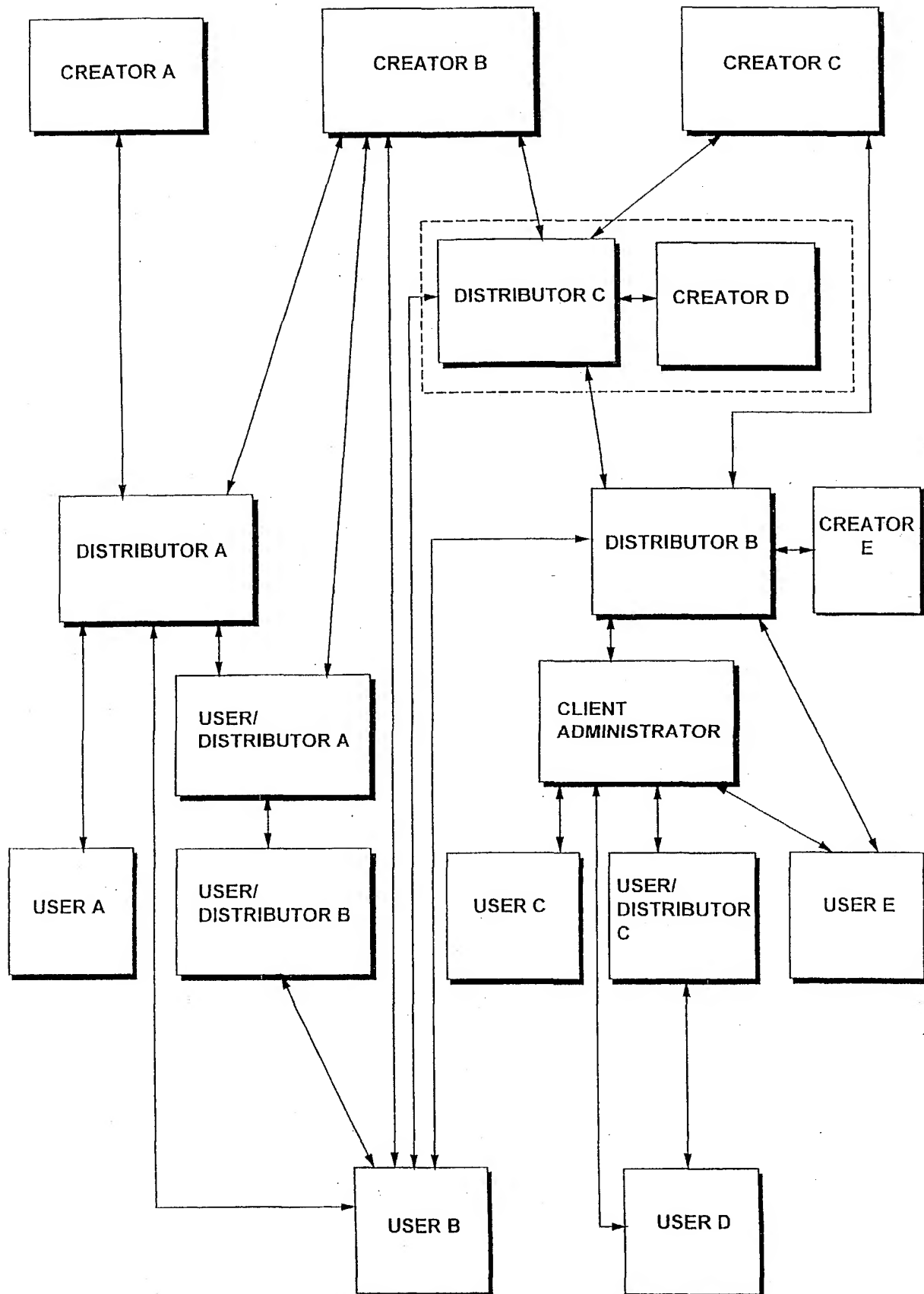
FIG. 77



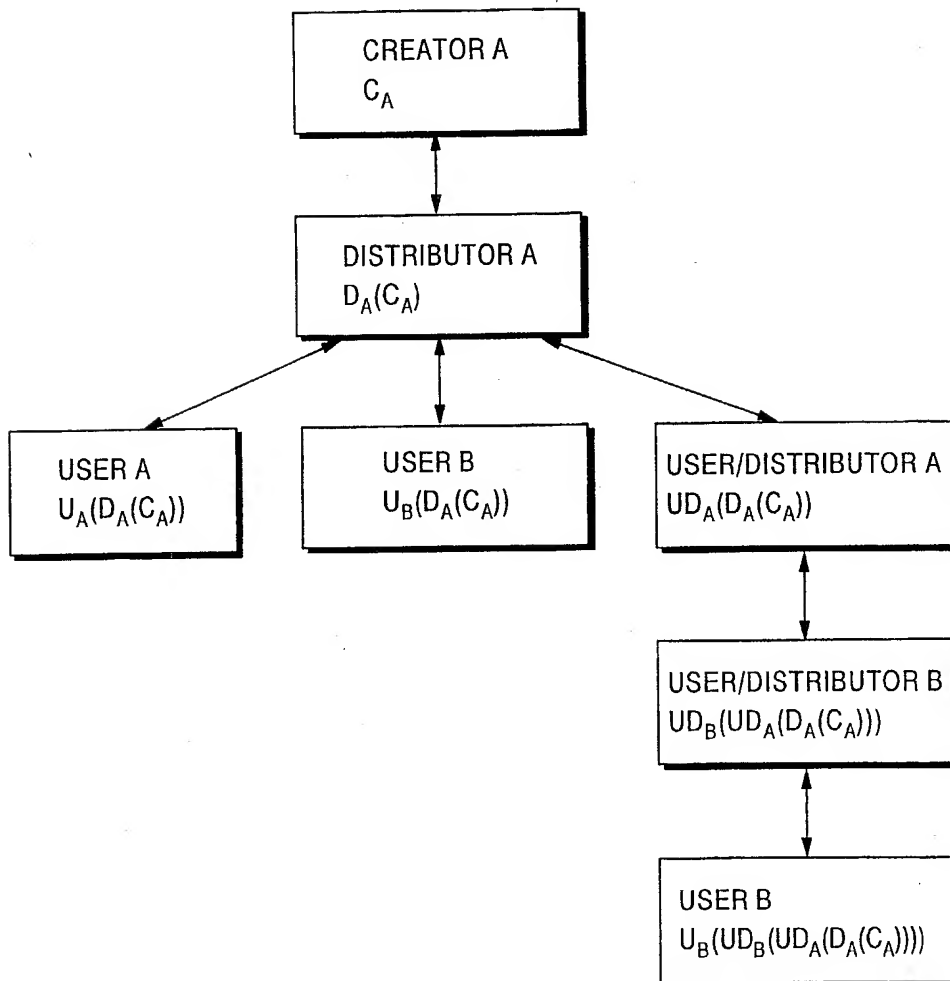


**FIG. 78**

**FIG. 79**



**FIG. 80**



**FIG. 81**

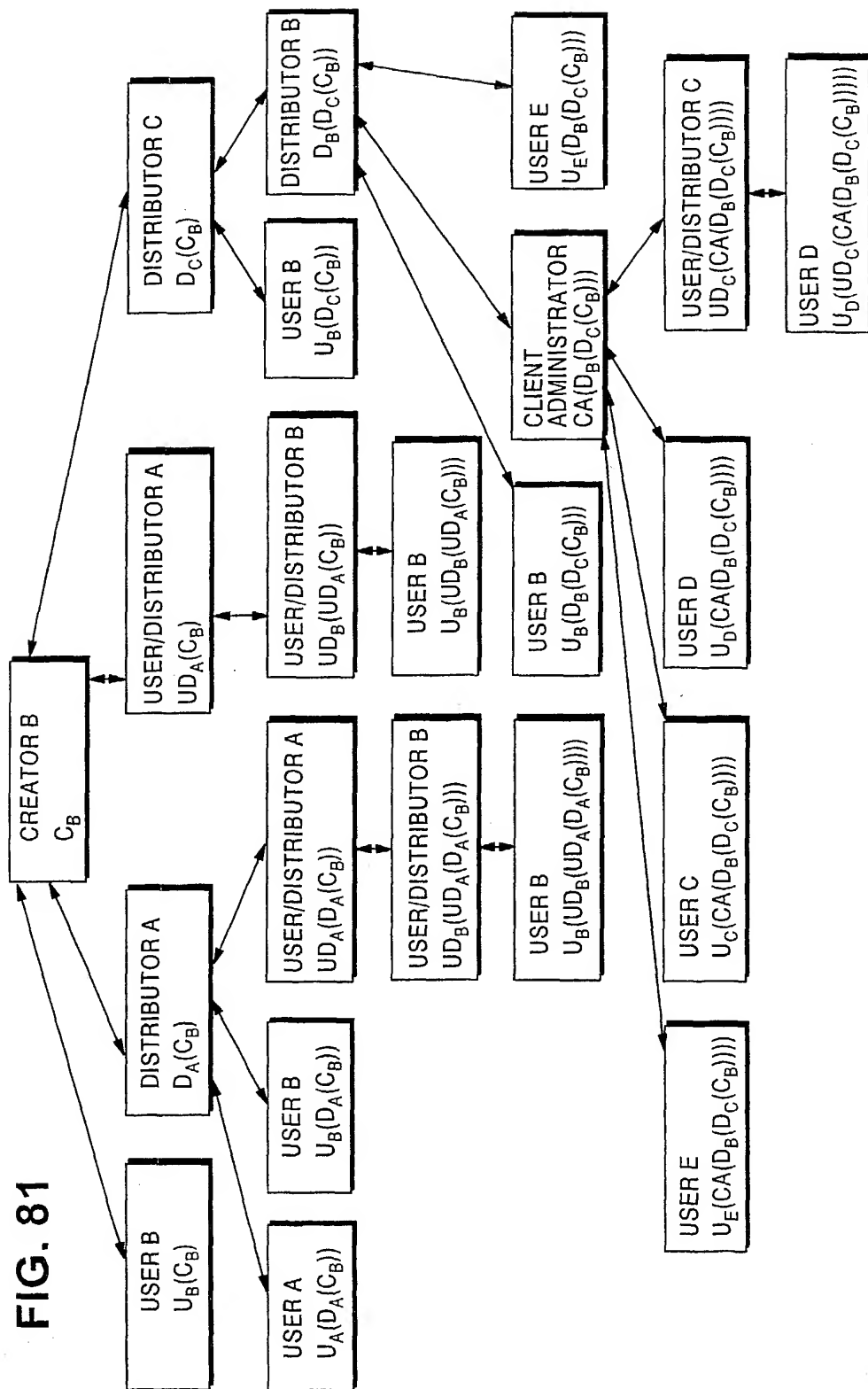


FIG. 82

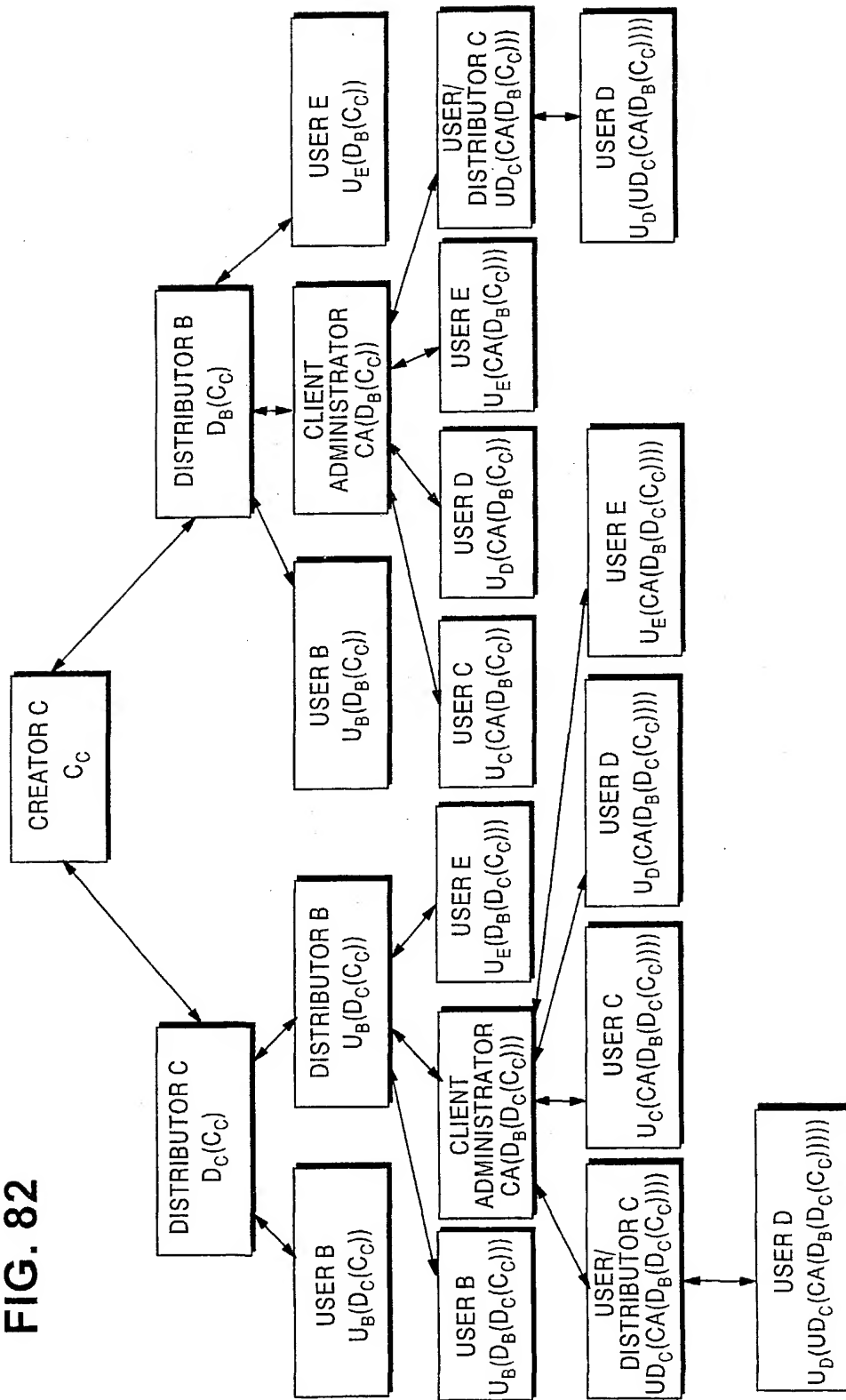


FIG. 83

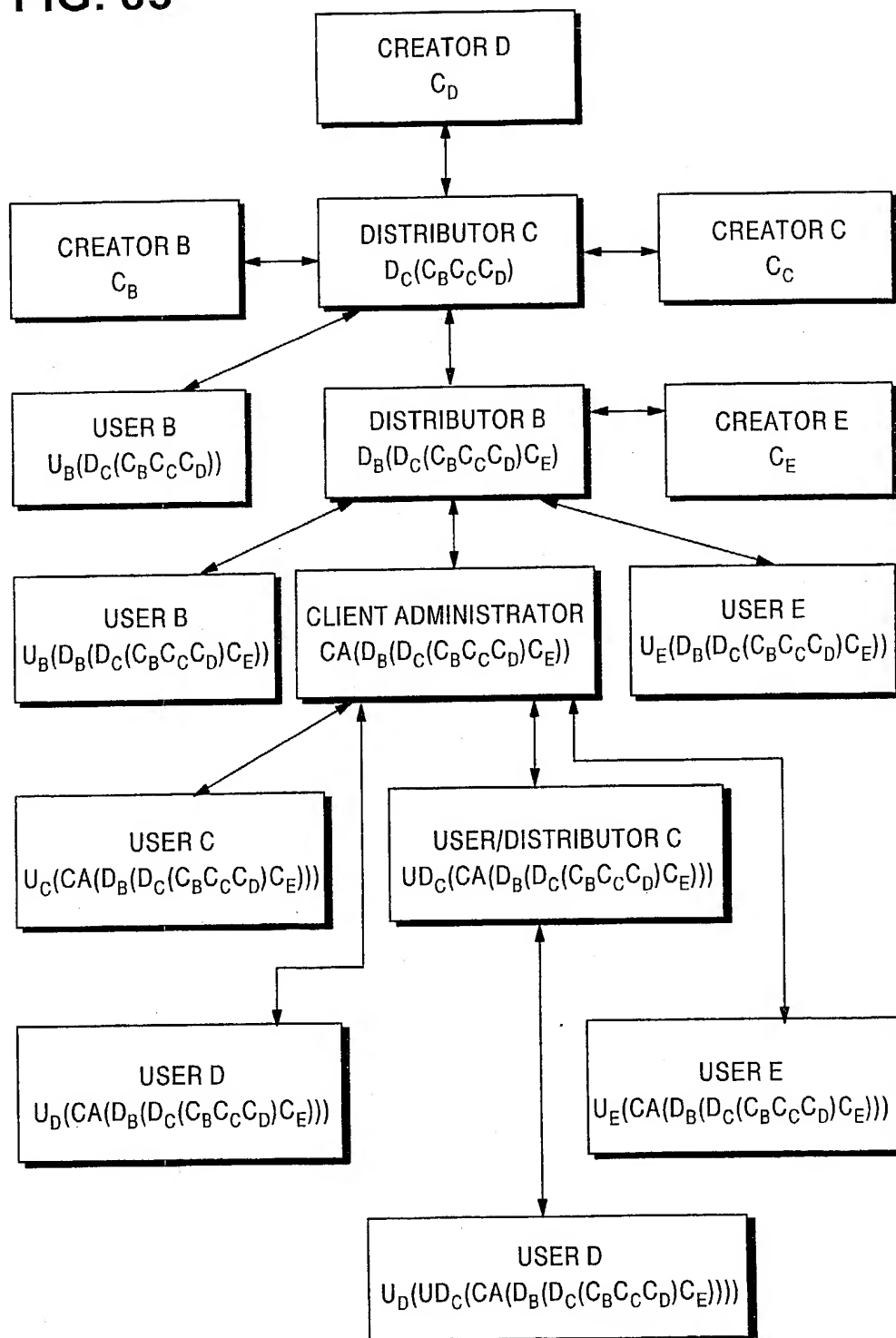
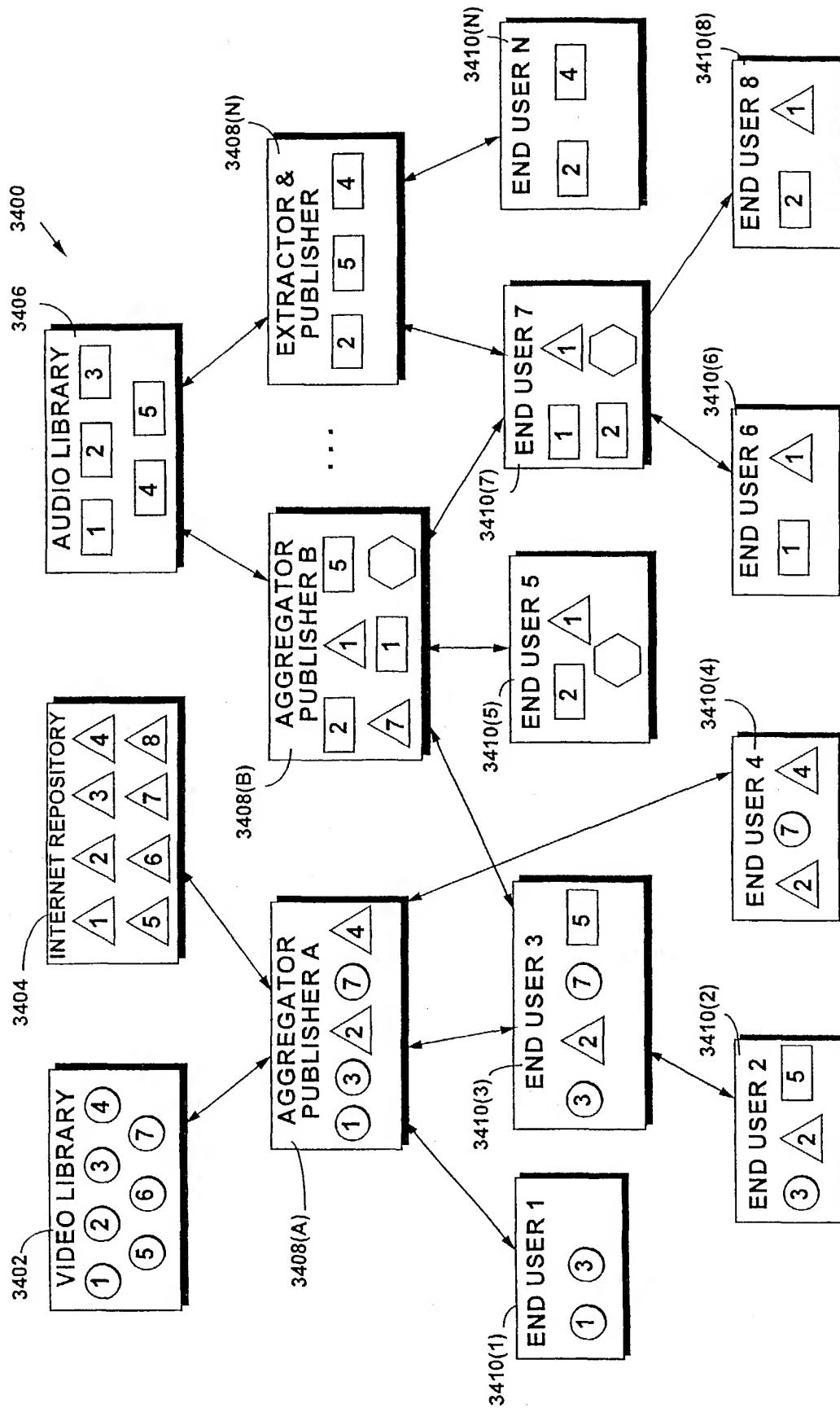


FIG. 84



**FIG. 85**

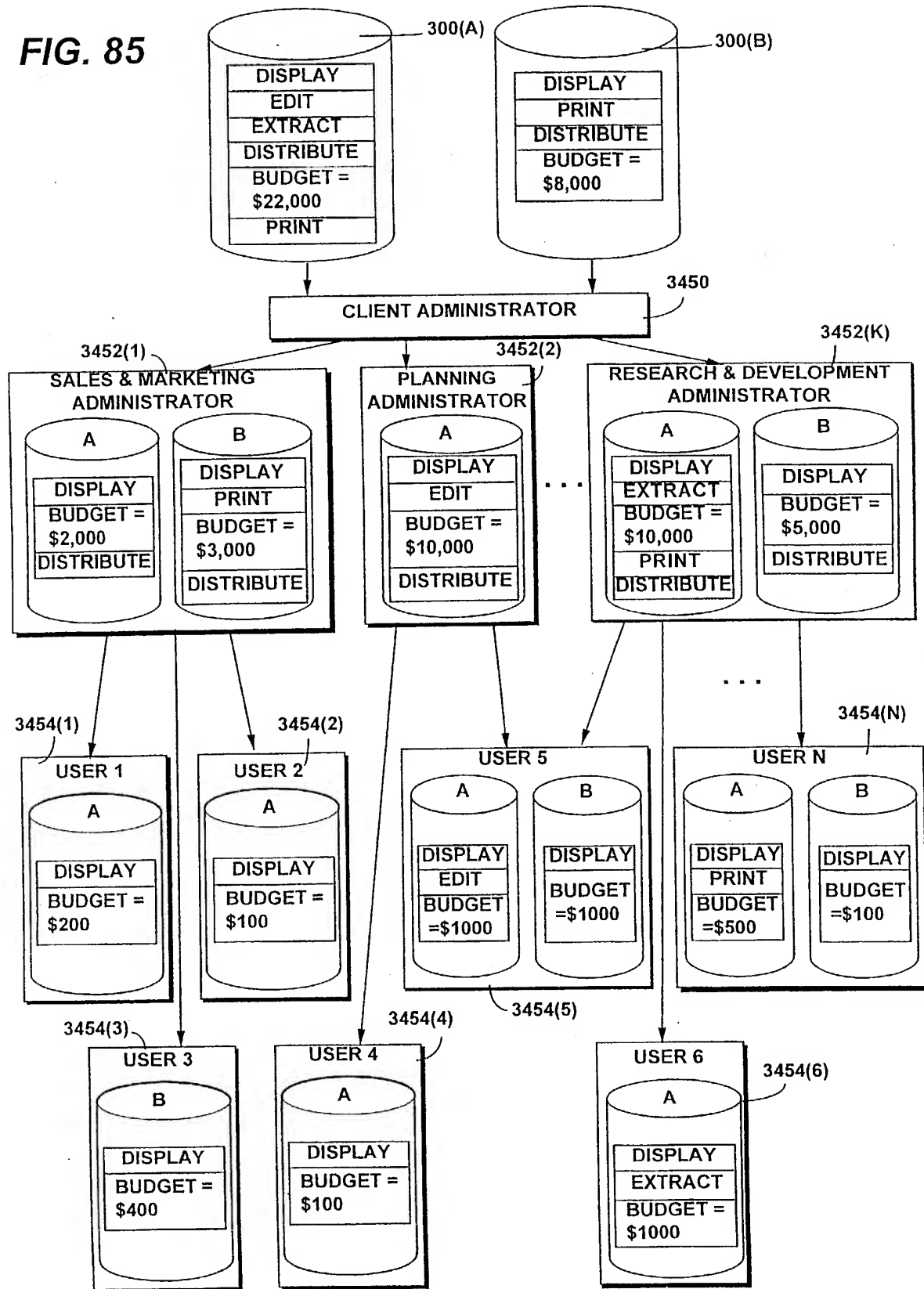


FIG. 86

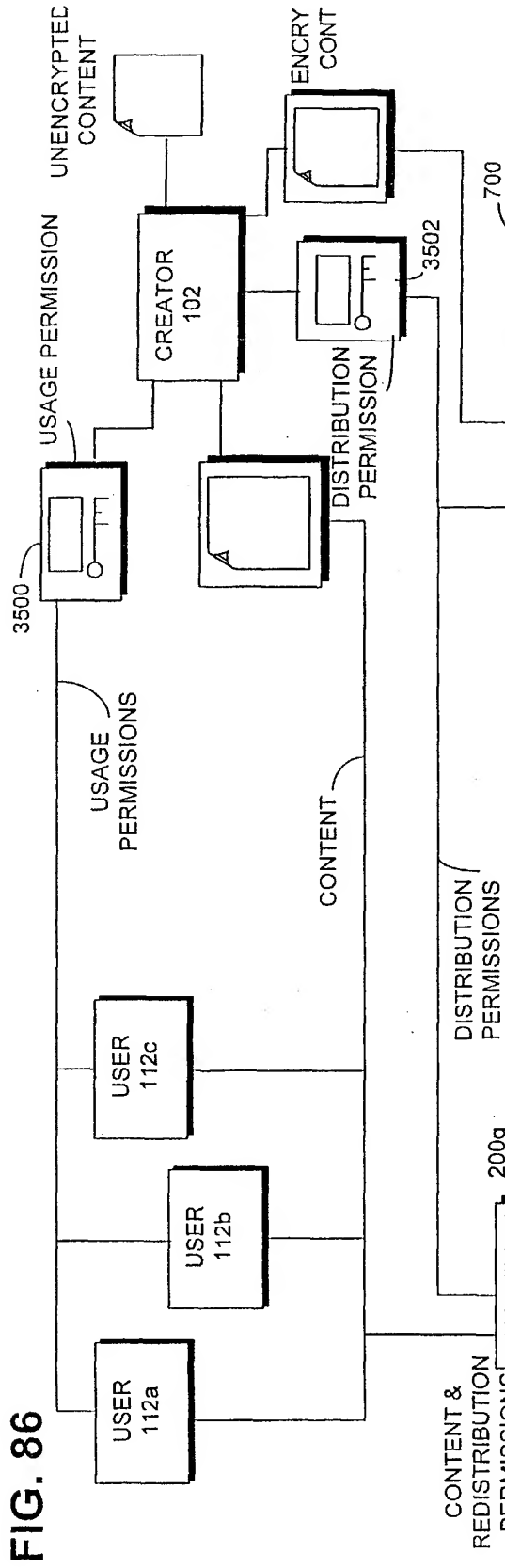


FIG. 86A

